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Reservoir No. 6 PCB Remedial Action Plan



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EXECUTIVE SUMMARY

On behalf of the Metropolitan District (MDC), Weston & Sampson Engineers, Inc. (Weston & Sampson) has prepared this remedial plan to address polychlorinated biphenyl (PCB) containing building materials and releases from these materials to abutting concrete in the Filtered Water Basin at the Reservoir No. 6 Water Treatment Facility. MDC is seeking approval of this plan under the federal PCB regulations, 40 CFR 761.61(c), 62(a), and 79(h), for the remediation of PCB bulk product and remediation waste. The Connecticut Department of Public Health had previously required the MDC to rehabilitate the Filtered Water Basin which is used to store potable water at the Reservoir No. 6 facility prior to distribution. Contract documents have been prepared for the rehabilitation of the basin and this remedial plan and the procedures specified to address PCBs will be included as part of the scope of work for the selected contractor.

The interior of the basin was inspected during the planning phase for the Filtered Water Basin Rehabilitation project and a PCB-containing expansion joint caulk was discovered during this inspection. The caulk was removed from the interior of the Filtered Water Basin at the time of the discovery and the basins were cleaned.

Initial sampling of concrete was performed at the time of the caulk removal to define the extent of PCB releases. In addition, an MDC consultant modeled potential releases of PCBs to the drinking water supply to evaluate potential risk and determined that the remaining PCBs in the existing concrete did not pose a risk to public health. The MDC also continues to sample and analyze drinking water samples as required by the Safe Drinking Water Act to determine compliance with the Maximum Contaminant Levels for PCBs and no PCBs have been detected in any sampled collected during the operating history of the Water Treatment Facility.

Site Description and History

The Reservoir No. 6 Water Treatment Facility, located in Bloomfield, Connecticut, is one of two water treatment facilities operated by the MDC. Reservoir No. 6 Water Treatment Facility is a conventional water treatment plant and was built between 1968 and 1972. Today, Reservoir No. 6 along with the West Hartford facility, treat 50 million gallons of water a day.

The high period for use of potable water supplied by the facility is between Memorial Day and Labor Day. During this time period, both compartments of the filtered water basin are needed to store potable water to meet demand and the compartments cannot be accessed or taken off line. Both compartments are normally in use year round and only one of the compartments may be taken off line at any time and only between September and May.

Construction

The filtered water basin consists of two concrete compartments that are approximately 156 feet wide each for a total basin width of 312 feet. The two compartments are both 280 feet long and the approximate depth (base to ceiling) of the compartments is 18 feet. When the basin was inspected in 2013, building materials were surveyed and the only caulk identified within the basin was installed in the two expansion joints (one in each compartment). On the interior, the expansion joint runs along the entire interior perimeter (i.e., base, walls, and ceiling) and each are approximately 600 feet in length. On the exterior, the expansion joint runs along the exterior walls and upper surface of the basin and each joint is approximately 315 feet in length. There is no caulk installed on the exterior base of the basin.

Previous Abatement and Environmental Investigations

The expansion joint caulk identified during the initial survey was tested for PCBs at the time of discovery and assessed to contain PCBs at a concentration greater than 50 mg/kg. The caulk was classified as a PCB Bulk



Product Waste and was removed from the entire interior of both compartments and from the expansion joints along the top of both compartments.

Concrete abutting the caulk on both the interior and exterior of the basin was sampled and assessed to be impacted by PCBs. These PCBs detections were mostly limited to within twenty-four inches of the expansion joint location.

Conceptual Site Model

The only identified source of PCBs within the basin compartments was the caulk installed in the expansion joints. The caulk was installed within these expansion joints around the entire perimeter of the interior of the basin and on the sidewalls and top surface of the exterior. PCBs were identified in the concrete abutting the expansion joint on both the interior and exterior of the basin. PCBs are known to release from a caulk into abutting building materials through diffusion. This diffusion of PCBs from the caulk into the concrete is the suspected source of the PCBs in concrete.

Applicable Regulations

The Federal PCB regulations do not authorize the use of PCBs in "open systems" and PCB-containing building materials, such as the caulk identified in the basin, are classified as PCB Bulk Product Wastes if the PCB concentration is ≥50 mg/kg. PCB Bulk Product Wastes must be removed from use and disposed as indicated in §761.62. Abutting building materials impacted by releases of PCBs from a PCB Bulk Product Waste are regulated as PCB Remediation Wastes if the PCB Bulk Product Waste has been removed under a separate plan. Soil impacted from releases of PCBs from a PCB Bulk Product Waste are also regulated as PCB Remediation Wastes. The remediation of PCB Remediation Wastes is described in §761.61.

Connecticut General Statutes 22a-463 through -469, inclusive, prohibit the use of PCBs in open systems. The removal of these materials from use is required if PCB concentrations are >1 mg/kg. Releases of PCBs to soil are regulated under the Regulations of Connecticut State Agencies 22a-133k-1 through -3, inclusive, the Remediation Standard.

Project Objectives and Remedial Goals

The objectives of the project are to remove PCB-containing building materials with total PCB concentrations greater than one milligram per kilogram to comply with the applicable federal and state regulations. In addition, releases of PCBs to building materials and soil will be remediated to a concentration of <1 mg/kg which is the strictest remedial standard contained within the federal and state regulations.

Remediation in this manner will not require Environmental Land Use Restrictions to be placed on the property. In addition, no inspections or monitoring for PCB-impacts will be required following the completion of the project.

Remedial Actions

Remediation of the basin will include removal of the remaining PCB Bulk Product Waste caulk from the exterior of the basin and remediation of soil and concrete which have been impacted by PCBs at a concentration >1 mg/kg. Verification sampling will be performed to assess that remedial goals have been achieved. Wastes will be stored, handled and disposed in accordance with the requirements of the applicable federal and state regulations.

The Filtered Water Basin will be restored following the completion of the remedial actions and other corrective measures required to rehabilitate the basin. A final report, summarizing the remedial actions, will be submitted to federal and state regulators following the completion of the project.



1.0 INTRODUCTION

On behalf of the Metropolitan District (MDC), Weston & Sampson Engineers, Inc. (Weston & Sampson) has prepared this remedial plan to address polychlorinated biphenyl (PCB) containing building materials and releases from these materials to abutting concrete in the Filtered Water Basin at the Reservoir No. 6 Water Treatment Facility. MDC is seeking approval of this plan under the Toxic Substances Control Act (TSCA) 40 CFR 761.61(c), 62(a), and 79(h) for the remediation of PCB bulk product and remediation waste. The MDC is a public, non-profit municipal corporation created by the Connecticut General Assembly in 1929 to provide potable water and sewer systems for people and businesses in the Hartford area and the MDC owns and operates the facilities at Reservoir No. 6. Communities in the area currently served by the MDC include Bloomfield, East Hartford, Hartford, Newington, Rocky Hill, West Hartford, Wethersfield, and Windsor, Connecticut.

The Connecticut Department of Public Health had previously required the MDC to rehabilitate the Filtered Water Basin which is used to store potable water at the Reservoir No. 6 facility prior to distribution. The Filtered Water Basin is separated into two compartments and each compartment can store approximately five million gallons of potable water. Contract documents have been prepared for the rehabilitation of the two compartments and this remedial plan and the procedures specified to address PCBs will be included as part of the scope of work for the selected contractor.

The interior of the basin compartments were inspected in the winter of 2013 during the planning phase for the Filtered Water Basin Rehabilitation Project. A PCB-containing expansion joint caulk was discovered during this inspection. The caulk was entirely removed from the interior of both compartments at the time of the discovery and the basins were cleaned. The expansion joint caulk was also removed from the exterior of the basins along the top surface.

Initial sampling of concrete was performed at the time of the caulk removal to define the extent of PCB releases. In addition, an MDC consultant modeled potential releases of PCBs to the drinking water stored within the basin to evaluate potential risk and determined that the remaining PCBs in concrete did not pose a risk to public health. The MDC also continues to sample and analyze drinking water samples for PCBs, as required by the Safe Drinking Water Act to determine compliance with the Maximum Contaminant Levels. No PCBs have been detected in any sample collected during the operating history of the Water Treatment Facility and that the system is in compliance with all applicable federal PCB regulations.

1.1 Site History and Operations

Reservoir No. 6 is a drinking water treatment facility with a water reservoir and treatment facilities that treat, store, and distribute potable water to MDC customers. A site location map and a site plan for the area of the filtered water basins is provided on Drawing C-01 from the Contract Documents in **Appendix A**. Construction began on the Reservoir No. 6 water treatment facility in West Hartford in the late 60's and the plant went online in 1972. Today, Reservoir No. 6 along with the MDC's other West Hartford facility, purify 50 million gallons of water a day. Together these facilities ensure the quality of the MDC's water meets or exceeds the standards of the Federal Safe Drinking Water Act of 1974 and subsequent amendments and requirements of the law.

The high period for use of potable water supplied by the facility is between Memorial Day (late May) and Labor Day (early September). Both compartments are needed to store potable water to meet demand during this time period and when the compartments are in use they cannot be accessed. Thus, the basins may only be taken off line and entered to perform sampling or the planned rehabilitation work between September and May.



Both compartments are normally in use year round and only one of the compartments may be taken off line at any time. Thus, any sampling, PCB remediation, or other activities described in this remedial plan that requires basin access can only be performed between September and May and only one of the basins may be accessed at any time.

1.2 Filtered Water Basin Construction

The filtered water basin is entirely buried and covered with a minimum of 18 inches of pea stone and soil on the top surface. The two compartments are approximately 156 feet wide each and the basin has a total width of 312 feet. The two compartments are both 280 feet long and the base and upper surface of the compartments are sloped but the approximate depth (base to ceiling) of the compartments is 18 feet. There are a series of columns within the basin that support the roof. Drawing S-01 from the Contract Documents, attached in **Appendix A**, depicts the construction and shows the column lines, some major features of the basins, and locations of cracked and damaged concrete requiring repair. On Drawing S-01, the center wall that divides the two compartments is along the CL line and the expansion joints in each compartment are along the G/H line.

When the basin was inspected in 2013, building materials were surveyed and the only caulk identified within the basin was installed in the two expansion joints (one in each compartment). On the interior, the expansion joint runs along the entire interior perimeter (i.e., base, walls, and ceiling) and each are approximately 600 feet in length. On the exterior, the expansion joint runs along the exterior walls and upper surface of the basin and each joint is approximately 315 feet in length. There is no caulk installed on the exterior base of the basin.

1.3 Previous Environmental Investigations and PCB Abatement

The two compartments were inspected separately during the winter of 2013 and 2014 to evaluate their condition. During this inspection, a caulk was identified in an interior expansion joint, sampled, and assessed to contain PCBs at a concentration greater than 100,000 mg/kg. Following this discovery, the caulk and a cork backing material were removed from service, disposed as PCB waste, and new backing materials and caulking installed so that the basins could be brought back into service. Waste manifests for materials removed and disposed of during this initial investigation and abatement phase are included in **Appendix B**.

Concrete adjacent to the caulk was sampled following the procedures specified in the United State Environmental Protection Agency (EPA) Region 1 Standard Operating Procedure for Sampling Porous Materials with most samples collected of the surface interval (0 to 0.5 inches) with limited additional sampling of the concrete at deeper depths. Samples were sent to a Connecticut-certified analytical laboratory and analyzed for total PCBs by EPA Method 3540/8082. The data are presented in Table 1 and the analytical data reports are attached in **Appendix C**.

The analytical results from this sampling indicate that PCB concentrations decrease with distance from the caulk joint and are generally <1 mg/kg at a distance of 18 to 24 inches from the caulk. However, additional sampling as described in **Section 2.1** is required to complete the delineation of PCB impacts to concrete.

It was also assessed that an expansion joint caulk was present on the exterior of the basin. The basins are buried under a minimum of 18" of pea stone and soil across the top surface of the basin. To expose both of the expansion joints, soil and pea stone was removed from a four foot wide section (two feet to either side of the expansion joint) and disposed as PCB Remediation Waste ≥50 mg/kg. The expansion joint caulk and backing materials was removed and replaced with new materials so that the basin could be brought back into use. The area was then restored with new pea stone and soil but no barrier was placed over the remaining PCB-impacted concrete.

Limited additional sampling of exterior concrete was performed and the data are also presented in Table 1. Data from this sampling are similar to the data from the interior of the basin.



The expansion joint caulk is also present along the side walls of the basin but this material was not removed at the same time as the interior caulk because it could not be accessed without performing significant soil excavations. Soil in contact with this caulk was not sampled as well. To remediate the concrete abutting the caulk and the remaining PCB Bulk Product Waste caulk, additional sampling to characterize the soil that will be excavated to access the concrete is required and described in **Section 2.2**.

1.4 Conceptual Site Model

The following provides a conceptual site model (CSM) for the identified and suspected PCB-impacts at the filtered water basin. Additional sampling required to fully delineate the PCB impacts has not been performed to date.

1.4.1 PCB-Source Material

The only identified source material for PCBs in the Filtered Water Basin is the caulk that was installed within the expansion joints both interior and exterior to the basin. It is believed that this caulk was installed at the time of construction as there are no records indicating that a removal and replacement action prior to that performed in 2013. Following cleaning of the basin, there was no evidence found for the application of a black asphaltic or tar coating to waterproof the concrete and the sampling of the concrete performed did not indicate the presence of a coating. In addition, any pumps or other equipment used in water distribution are installed exterior to the basin so these are not a potential source.

1.4.2 Potentially Impacted Media

PCBs are known to leach from caulks applied to concrete surfaces through diffusion. The sampling performed to date indicates that this type of release occurred within the basins and that this leaching is mostly limited to within 24 inches or 2 feet of the caulk seam. However, some of the data indicates that PCBs leached further than 2 feet and additional data are needed to complete the delineation.

Caulks on the exterior of the basin are in contact with soil as the entire structure is buried beneath a minimum of 18 inches of soil. Caulks are known to deteriorate with time and release to the surrounding soil. No data has been collected yet to delineate these releases and additional sampling is planned as part of this remedial plan.

1.5 Applicable Regulations

The only identified PCB-containing building material, the expansion joint caulk, is regulated under §761.62 of the federal PCB regulations found in Chapter 40 of the Code of Federal Regulations, Part 761 (40 CFR Part 761) and sections 22a-463 through -469, inclusive, of the Connecticut General Statues. Because PCB concentrations in the caulk were ≥50 mg/kg, the caulk is classified as a PCB Bulk Product Waste. The use of an "open system" application like caulk is not authorized for continued use under either the federal or state regulations and the caulk must be removed from use.

Because the caulks were removed under a separate remedial action, the building materials impacted by releases of PCBs will be handled, stored, and disposed of as PCB Remediation Wastes. Any soil impacted by PCB releases from the caulk will also be treated as PCB Remediation Wastes. Remediation of PCB Remediation Wastes is described in §761.61 and the remedial goals are established in §761.61(a)(4). The Connecticut Department of Energy and Environmental Protection (CT DEEP) Remediation Standard Regulation (RSR) found in Sections 22a-133k-1 through -3, inclusive, of the Regulations of Connecticut State Agencies are also applicable to soil impacted from releases from a PCB-containing building material. Standards for soil remediation are found in Section 22a-133k-2.



The minimum remedial standard defined in §761.61(a)(4) for a PCB Remediation Waste is found in §761.61(a)(4)(i)(A). This standard of ≤1 mg/kg is for high occupancy areas and does not require further conditions be placed. The minimum remedial standard for PCBs in soil in the RSRs is found in Appendix A. The Residential Direct Exposure Criteria (RDEC) for PCBs is 1 mg/kg. The facility is neither high occupancy or residential in use. However, give the use of the facility in generating potable water, these standards will be applied to the remediation.

1.6 Remedial Goals

The goals for remediation are:

- To remove PCB-containing building materials manufactured with PCB concentrations >1 mg/kg. The only material of this type identified within the basin is the expansion joint caulk. This caulk has been completely removed from the interior of the basins and replaced with another caulk. The caulk has also been removed from the exterior of the basin along the top. The remaining PCB Bulk Product Waste caulk, still in place along the walls of the basin on the exterior, will be removed during the implementation of the remedial actions described in this plan.
- To remove materials impacted by the releases of PCB with concentrations >1 mg/kg. Concrete in the basin is known to require remediation to achieve this remedial goal and additional testing will be performed to fully characterize the extent of PCB releases. Additional soil testing will be performed to evaluate the extent of remediation required to address PCB impacts to soil. It will be assumed that the replacement caulk is PCB-impacted and is classified as a PCB Remediation Waste.

Remediation in this manner will reduce PCB concentrations to less than the lowest applicable remedial standards established in the federal and state PCB regulations. As such, land use restrictions will not need to be filed on the site following remediation. The Filtered Water Basin will be inspected in the future to access the condition of the repairs and the general condition of the basin, but long-term inspection or monitoring for PCBs is not proposed since impacts will be reduced to non-regulated levels (<1 mg/kg).

1.7 Project Team

It is anticipated that the remediation project team will consist of the parties listed below. The responsibilities for each of these parties regarding the scope of work described in this Notification are described below and further detailed within.

- Owner The MDC, responsible for the performance of the work performed by their contractors as described in the EPA Approval to be issued for this project.
- Remedial Contractor Contracted to the MDC, responsible for performance of remediation activities (e.g., soil excavations and concrete removal) and other activities designated to be their responsibility as described in this Notification, the EPA Approval, and the Contractor's Work Plan that they will prepare and submit to EPA.
- Remediation Observation Contractor Contracted to the MDC, responsible for the collection of samples and observation and documentation of the remedial activities as described in this Notification and the EPA Approval.



2.0 REMEDIATION

PCB impacts have been identified in the concrete substrate at locations adjacent to the former location of the PCB Bulk Product Waste expansion joint caulk. This concrete will be remediated to the established remedial goals but additional sampling will be performed prior to this remediation to delineate the extent of PCB releases. PCB impacts are suspected for soil in contact with the expansion joint caulk. Soil will be remediated to the established remedial goals but additional sampling will be performed prior to this remediation as well to delineate the extent of PCB releases.

Because of the size of the structures involved, the complexity of the remediation required, and the difficulty in accessing the basin compartments, complete delineation of these PCB impacts has not been performed to date. The sampling defined below is also designed to serve as a pre-remediation verification program because in many cases it will not be possible to perform verification sampling after the remedial actions have been performed.

2.1 Concrete

A minimum of two feet of concrete will be removed from either side of the expansion joint, a four foot wide cut, as part of the rehabilitation project. It is not feasible to cut the entire length of the expansion joint at any one time as this could lead to shifting and failure of the basin. Even if the concrete is removed in small sections, temporary supports and other measures will be required to maintain the integrity of the basin as repairs are made and remediation performed. To successfully complete the rehabilitation along with the remediation, it will be necessary to pre-characterize the extent of concrete requiring remediation so that the contractor can prepare and install their temporary supports, perform the concrete cuts required to remediate PCB impacts, remove the concrete, and then construct the replacement for each section. The lengths of the sections cut may vary based upon the width of the pre-characterized cut to achieve the remedial goals. A review of structural concerns caused by the remediation activities was performed by a professional structural engineer and is attached in **Appendix D**.

Based on the previously performed characterization results, PCB impacts were greatest in the upper half-inch of the concrete. Thus, sampling limited to this surface interval is considered sufficient to delineate the PCB impacts in concrete. Verification sampling will be performed on both sides of each of the expansion joints within each of the compartments prior to performing concrete cuts. Pre-remediation concrete verification samples will be collected following the EPA Region 1 SOP for sampling porous materials and submitted to the selected Connecticut-certified analytical laboratory for analysis of total PCBs using EPA Methods 3540/8082.

The interior of each of the basin compartments will be entered, sampled, and remediated separately as one of the compartments must be in use at all times. The expansion joint caulk was installed over the entire interior perimeter of both compartments. Thus, sampling will be performed over the entire perimeter on the interior and, as shown on **Figure 1**, sampling is proposed to be performed at intervals of 15 feet and staggered on either side of the expansion joint to provide the greatest coverage. However, verification sample locations may need to be adjusted in the field because of the presence of obstructions that may not allow for spacing of exactly 15 feet.

Each of the interior expansion joints has an approximate length of 600 feet so a total of 40 verification samples will be collected on each side of the expansion joint, 80 per compartment, and 160 total verification samples on the interior of the basin. Mobile scaffolding or other means will be required to access the walls and ceiling of the structure for the sampling.

The exterior of each of the basin compartments will be sampled following removal of soil as described in **Section 2.2**. It is anticipated that the exterior sampling described below will be performed separately for each



compartment as soil weight has been indicated as being important to maintaining the integrity of the tanks in the structural assessment. The expansion joint caulk was installed over the top and the two sidewalls of the basin but not along the exterior base of the tank. Each joint has an approximate length of 315 feet and samples will be collected at the frequency and pattern as shown on **Figure 1**. A total of 21 verification samples will be collected on each side of the expansion joint, 42 per compartment, and 84 total verification samples on the exterior of the basin.

A minimum of 244 pre-remediation verification samples will be collected and considered as indicating remedial goals have been achieved if the sample results are ≤1 mg/kg total PCBs. Additional verification samples will be collected further out from the expansion joint at the location of each failed verification sample collected during the first round. This process will be continued until a cut line in the concrete can be established with verification sample results achieving the remedial goal.

Once the verification sampling has been completed on the interior and exterior surface of a compartment, an amendment to this remedial plan will be submitted to EPA and CT DEEP. This amendment will include tables and figures presenting the verification sample data and the final location of cuts in the concrete for that compartment.

The selected remedial contractor will be responsible for determining the means and methods and the sequencing of the concrete remediation. These details will be included in the Contractor's Work Plan for the concrete removal which will be submitted after the verification sampling data report has been reviewed and accepted by EPA and CT DEEP.

2.2 Soil

Soil was previously removed from the top surface of the basin so that the caulk in the expansion joints could be accessed, removed, and then disposed. The width of soil excavation for this removal action was four feet, extending two feet on either side of the expansion joint. The top side of the basin compartments were then restored following removal of the expansion joint caulk by installing new backing materials and caulk and then backfilling the excavations over the basin with 6 inches of pea stone and then 12 inches of soil. A barrier was not placed over the PCB-impacted concrete to isolate it from the newly placed backfill materials.

The backfill materials placed following the removal of the caulk have been in contact with PCB-impacted concrete. In addition, the perimeter of the excavations has not been tested to assess if sufficient soil was removed during the original excavation work to remediate PCB impacts. Additional characterization samples will be collected of soil on the top surface of the basin compartments as follows:

- Soil samples will be collected every 20 feet along the excavation perimeters. Each compartment is 280 feet long so a total of 19 samples will be collected from each excavation sidewall, 38 samples per compartment, and a total of 76 sidewall characterization samples for the basin.
- Soil samples will be collected every 20 feet along the expansion joint at the point of contact between the soil and the joint. A total of 19 samples will be collected for each compartment and a total of 38 samples for the basin.

Four soil excavations are proposed to remediate soil potentially impacted by PCBs at the basin sidewalls. A schematic showing the approximate locations of the excavations, which will be centered on the expansion joint present on the sidewalls, as wells as the borings to be performed to pre-verify the excavations is shown on Figure 2. Pre-remediation verification sampling is considered necessary because the excavation will need to be performed within the sheet pile area.

The basin is buried and the sidewalls are covered with a sloping soil surface. To clear a sufficient area for the concrete of the basin to be remediated, a sheet pile box extending four feet out from the concrete sidewall of



the basin and ten feet wide (centered on the expansion joint) will be constructed at each of the four locations where the expansion joint is located within the sidewall. Sampling will be performed at the approximate locations shown on **Figure 2** prior to the installation of the sheet pile as follows:

- One boring will be performed at the location of the expansion joint and soil samples will be collected at 0 to 0.5 feet below ground surface (ft bgs), 5 to 5.5 ft bgs, 10-10.5 ft bgs, 15-15.5 ft bgs, and 20-20.5 ft bgs.
- Four borings will be performed within the perimeter of the sheet pile box as shown on the figure and soil samples will be collected at the same intervals listed above.

Soil samples described above will be submitted to a Connecticut-certified analytical laboratory and analyzed for total PCBs using EPA Methods 3540/8082. The data will be summarized in an amendment to be submitted to EPA and CT DEEP which will include the following:

- Data tables summarizing the soil data and figures showing the sampling locations;
- Procedures for the remediation of soil impacts found to be >1 mg/kg total PCBs in each of the locations;
 and
- Proposed disposal facilities for soil removed as PCB Remediation Waste.

2.3 Site Restoration

Concrete will be restored as required in the Contract Documents following the removal of PCB-impacted concrete. Soil excavations will be backfilled/compacted up to current grades and seeded at the surface. The extent of the concrete and soil remediations will be documented by the Remediation Observation Contractor for inclusion in the final remedial action report.

2.4 Waste Management

Disposal facilities for each of the waste streams described below will be determined by the selected remedial contractor and listed in the Contractor's Work Plan to be submitted to EPA prior to initiating work. The procedures below describe how the remedial contractor will be required to handle and store each of the waste streams and the types of disposal or decontamination facilities that will be allowed for use.

2.4.1 Solid Wastes

Solid PCB wastes generated during the concrete remediation will be stored in lined rolloff containers for a period not to exceed 30 days. If wastes are being generated at a pace such that weight minimums for transport and disposal cannot be generated within the 30-day limit, the Remediation Oversight Contractor shall submit a modification request to EPA to allow for the rolloffs to be classified as 180-day storage areas in compliance with §761.65 (c)(9). The concrete, the replacement expansion joint caulk, and the remaining original caulk will be disposed as PCB Remediation Waste with total PCB concentrations ≥50 mg/kg at a Chemical Waste Landfill complying with the requirements of §761.75. No attempt will be made to segregate these materials.

Handling, storage and disposal procedures for soil to be excavated will be developed based upon the proposed sampling as described in **Section 2.2**. An amendment to this remedial plan will be prepared and submitted to EPA and CT DEEP following the completion of the soil sampling. This amendment will include a summary of the soil data collected and proposed procedures for handling, storage, and disposal of the soil. If soil testing finds total PCB concentrations ≥50 mg/kg, the soil will be handled, stored, and disposed in the same manner as described above for the concrete wastes generate. If soil testing finds total PCB concentrations <50 mg/kg, the soil will be handled and stored as described above but the soil will be disposed at a Subtitle D permitted landfill permitted to accept PCB Remediation Waste at a concentration <50 mg/kg.



The remedial contractor shall transport the solid PCB wastes to a waste storage area to be established at the site. The rolloff containers will be stored within this area which will be surrounded by a fence and an M_L mark will be placed on the fence. An M_L mark will be placed on each of the rolloff containers when wastes are first placed into the rolloff. The remediation observation contractor shall mark the date that the rolloff container was first used for storage on the M_L mark and shall be responsible for tracking the time of storage onsite. If wastes are not generated at a sufficient rate to fill the rolloff within the 30-day temporary storage limit, EPA will be notified and a request to extend the storage period submitted for review.

Other solid wastes generated during the remediation, expected to consist of personal protective equipment and solid decontamination wastes, will be disposed of with the PCB wastes with which they have been generated. Decontamination wastes from equipment used to remediate concrete and PPE worn by site workers during concrete remediation will be disposed of with the concrete. Decontamination wastes and PPE from the soil excavations will be disposed of with the soil.

2.4.2 Aqueous Wastes

Aqueous wastes generated during the remediation are expected to include any water collected during the wet saw cutting of concrete (if the contractor selects this method) and any water wastes generated during decontamination of equipment. Aqueous wastes will be collected and stored in 55-gallon drums and the drums will be stored within the fence line of the waste storage area. Each drum generated will be tested and analyzed for total PCBs by EPA Methods 3510 and 8082.

If total PCB concentrations in the aqueous waste are assessed to be <0.5 ug/L, the water will be decontaminated without regard to PCBs. If total PCB concentrations are <3.0 ug/L, the water will be discharged to a POTW operated by the MDC. If total PCBs concentrations in the aqueous waste are ≥3.0 ug/L, the water will either be sent offsite for incineration or shipped to the water decontamination facility at the Model City Landfill. Selected decontamination options for water will be specified in the Contractor's Work Plan.

2.5 Dust Control and Air Monitoring

During soil excavation and concrete remediation activities that could generate dust, the remediation oversight contractor will continuously monitor dust concentrations and inform the contractor if additional dust control methods are required. The oversight contractor will be responsible for submittal of an air monitoring plan to EPA as described in Section 3.3. However, an action limit of 120 micrograms-per-cubic meter (μ g/m3) dust above observed background will be utilized. This action limit represents 80% of the 24-hour US EPA National Ambient Air Quality Standards (NAAQS) for PM₁₀ of 150 μ g/m3. If dust concentrations exceed this level, work will be stopped until engineering controls or additional dust control measures (e.g. water missing, wind barriers etc.) are implemented.

During interior concrete removal activities, polyethylene sheeting, or equivalent, shall be installed as a dust barrier to prevent migration of PCB impacted concrete dust from migrating outside of the work area. Additional engineering controls (wet methods, HEPA exhaust filtration) shall be implemented as necessary for both interior and exterior cutting of concrete. Berms or other control measures will be used to collect water is wet saw-cutting of the concrete is used. Water collected during wet cutting of concrete will be handled, stored, characterized, and decontaminated as described in Section 2.4.2.

2.6 Erosion and Sedimentation Control Measures

Erosion and sedimentation control measures will be employed during the remediation activities in accordance with the project design documents. Sedimentation controls will be installed along the downgradient perimeter areas of the site that will receive stormwater from soil excavation activities. These structures will be observed and maintained on a regular basis for the duration of the project and will be installed prior to commencing field



activities. Perimeter sedimentation control will include silt fencing, filtration logs or hay bales installed along the perimeter of the work zone, in stockpile/staging areas, or as needed.

2.7 Dewatering

It is anticipated that the soil excavations will need to be dewatered. The dewatering effluent from PCB soil excavations will be filtered and the water handled, stored, tested, and decontaminated as described in **Section 2.4.2**. The filter materials will be handled, stored, and disposed of with the soil from the excavation as described in **Section 2.4.1**.

2.8 Decontamination

Following the completion of the cleanup, the selected remediation contractor will be responsible for the decontamination of equipment that has come in contact with PCB impacted media (excavator bucket, hoe ram, concrete saw etc.) in accordance with the procedures specified in §761.79(c)(2)(i) or (ii). The Contractor will specify the specific procedures to be implemented in their Contractor's Work Plan. However, for equipment that is decontaminated prior to use in the basins, decontamination will be limited to a fifty percent d-limonene solution in a double wash/rinse procedure because Performance Based Organic Decontamination Fluids are not appropriate for use on equipment that will be used in the basin. Solid and aqueous wastes generated during decontamination activities will be stored, handled, and disposed of or decontaminated as described in Sections 2.4.1 or 2.4.2.

2.9 Site Security

There is public access to recreational trails around the reservoir. However, the entire drinking water facility is surrounded by fencing and access to the Reservoir No. 6 facility can only be gained through gated and controlled entry points. Only MDC personnel or persons authorized by the MDC may gain access through the gates.

In addition to these site controls, additional security for the remediation activities will include:

- The filtered water basin is considered to be a confined space and entry points will be controlled by placing barriers and signs;
- Fencing will be placed around each soil excavation area following the completion of each work day;
 and
- Fencing will be placed around the perimeter of the designated waste storage area and wastes will be contained within this perimeter until transported offsite.

2.10 Environmental Land Use Restrictions

Environmental Land Use Restrictions will not be required if remedial goals are achieved.



3.0 PROJECT SUBMITTALS

The following is a listing of the submittals that are anticipated during the execution of the remedial project.

3.1 Notification and Certification

In accordance with 40 CFR §761.61(a)(3)(E), this remedial plan serves as the Notification by MDC to the EPA Region 1 PCB Coordinator and will be provided to state (CT DEEP), local environmental officials (Town Health Department), as well as the Connecticut Department of Public Health. Attached in **Appendix E** is a written certification, signed by a representative of MDC (owner of the property where the cleanup site is located) indicating that sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB impacts at the cleanup site are on file at the location designated in the certificate and are available for EPA inspection.

3.2 Owner Submittals

In addition to the attached Certification, the MDC will provide a letter to EPA within 10 days of receipt of the Approval agreeing to and accepting the conditions of the Approval. The MDC will also notify EPA and CT DEEP as to the planned start date for the rehabilitation program.

3.3 Remediation Observation Contractor Submittals

It is anticipated that a third party to be selected by the MDC, the Remediation Observation Contractor, will submit the following to EPA and CT DEEP:

- Written certification by the selected contractor indicating that they have read the Notification and the EPA Approval and that they agree to abide by the conditions of the documents;
- Written certification from the analytical laboratory selected by the Remediation Observation Contractor indicating that they have read the Notification and the EPA Approval and that they agree to abide by the conditions of the documents;
- An air monitoring plan to be implemented during the performance of soil excavations;
- A summary of the soil testing proposed in this Notification with a description of the remedial work to be performed based upon the sample results;
- A summary of the concrete testing proposed in this Notification with a description of the remedial work to be performed based upon the sample results; and
- A Remedial Action Report following the completion of the remediation as described in the Notification and further described in Section 4.2.

3.4 Remediation Contractor Submittals

The Remediation Contractor will submit the following to EPA and CT DEEP:

- Written certification indicating that they have read the Notification and the EPA Approval and that they
 agree to abide by the conditions of the documents; and
- A Contractor's Work Plan describing the means and methods for the abatement of PCBs, control
 measures to limit the spread of dust and other materials that may contain PCBs, erosion control
 measures, equipment decontamination procedures, and disposal or decontamination facilities for solid
 and aqueous wastes, respectively.



3.5 Submittals Schedule

The following provides a schedule for the submittals described above.

- Written certifications will be submitted to EPA following selection of the contractor responsible for that scope of work and described above.
- The Remediation Contractor's Work Plan will be submitted to EPA for review and comment prior to commencing work on the project. EPA approval of the work plan will be required before the work as described in this Notification is performed.
- The Remediation Observation Contractor will submit the air monitoring plan to EPA for review and comment prior to commencing any soil excavation work. EPA approval of the air monitoring plan will be required before soil excavation as described in this Notification is performed.
- The soil and concrete reports will be submitted to EPA following completion of the sampling activities for review and comment. The remedial activities as described in these submittals will not be performed until approved by EPA.

4.0 DOCUMENTATION AND REPORTING

Remediation activities will be overseen by a third party (Remediation Observation Contractor) selected by the MDC. This third party will be familiar with the rehabilitation project and the requirements of this Notification and the EPA Approval. They will be responsible for preparing and maintaining a record of the remediation activities performed and for preparation and submittal of the final Remedial Action Report. The observation contractor will document that the project is completed in accordance with these requirements and generally accepted industry/engineering standards.

4.1 Field Documentation

The following list identifies the specific documentation and reporting requirements that will be required for this project.

- Maintaining an accounting of soil excavated, concrete demolished/transported off-site for disposal (including collecting manifests), and any other records related to off-site disposal of these materials and any other PCB wastes generated during the remediation;
- Collection of verification samples and preparation of submittals to regulatory agencies as described in this remedial plan;
- Photographic documentation of executed field activities, and other pertinent observations;
- Documenting and reporting of spills, leaks, or other discharges occurring at the site during the
 performance of the remediation and remedial actions taken to address these occurrences;
- Documenting and reporting of disruption/damage to utility structures;
- Documenting that erosion control and site security measures are adequately maintained throughout the project;
- Maintaining excavation documentation per excavation area; and
- Documenting decontamination of materials that have contacted PCB wastes prior to demobilization from the site.

4.2 Post-Remediation Reporting

Following completion of remediation activities, a Remedial Action Report (RAR) will be prepared to document remediation activities by the Remediation Observation Contractor. The report will describe the completed work at the site, will be submitted on the schedule required in the EPA Approval, and contain the following items and any additional information required by the EPA Approval:

- Project narrative;
- Record drawing(s) showing the vertical and horizontal limits of the soil excavations and the final grades following restoration of these areas;
- Record drawing(s) showing the extent of concrete demolition;
- Waste disposal documentation (manifests, bills-of-lading, certificates of disposal, etc.);
- Documentation of materials incorporated into the project (backfill, topsoil, etc.); and
- Photographs of remediation activities.



5.0 PROJECT SCHEDULE

Given the size and complexity of the Filtered Water Basins Rehabilitation Project, bidding and contracting is anticipated to take up to nine months to complete. In addition, because only one of the basin compartments can be taken offline at any time and that both compartments are required to be in use during high use periods (May through September), periods during which remediation can be performed are limited.

Table 4-1 presents the estimated schedule for the project including major dates for PCB-related activities. The schedule presented includes limitations on the work such as only being able to enter and rehabilitate one of the compartments at any time. A final schedule will be developed following selection of the contractor for the rehabilitation project. EPA and CT DEEP will be advised as to the start date for the PCB remediation activities and will be provided with the Contractor's schedule for remediation at that time.

	Table 4-1 Project Schedule				
Task	Required Schedule				
November 2016	Submittal of Remedial Action Plan				
November 2016 through February 2017	EPA and CT DEEP Review, Comment and Negotiations				
February 2017	EPA Approval				
February 2017	Incorporate PCB Remedial Activities into Contract Documents				
February through June 2017	Contract Documents Released and Bids Received				
July 2017 through September 2017	Secure Contract with Selected Contractor				
September 2017 through May 2018	Remediation of One Compartment and Soil Excavations				
September 2018 through May 2019	Remediation of Second Compartment and Soil Excavations				
August 2019	Submit Remedial Action Report				

Because the goals of the remediation project are to remove building materials and soil with PCB concentrations >1 mg/kg, no recordings on the land records or inspection programs related to PCBs are anticipated post-remediation. Thus, no additional site work or reporting for PCBs are scheduled beyond the submittal of the final remediation report.

TABLE



Table 1

PCB Characterization Data

Filtered Water Basins Rehabilitation Project

MDC

Reservoir No. 6

Sampling Sampling Analysis Total PC8s (mg/kg) Classification Comments					Reservoir is	NO. U
Basin 1 (East Sasin)	Sample	Sampling	Analysis	Total PCBs	Classification	Comments
Eli	Identification Date Date			(mg/kg)	5.035001.	Comments
EUR 3/40/2014 3/18/2014 158,000 Disposed Expansion joint caulk Exterior Expension joint caulk Exterior Expansion joi					Basin 1 (East	·
EB 3/10/2014 3/18/2014 25,000 Disposed Cork backing directly beneath caulk Cork packing further beneat	EJI	3/10/2014	3/18/2014	562,000	Disposed	Expansion joint caulk - Exterior
C1 3/10/2014 3/18/2014 2.83 Disposed Control backing directly beneath caulk C1 C2 3/10/2014 3/18/2014 2.83 Disposed Control backing directly beneath caulk C2 3/10/2014 3/18/2014 0.650 Urregulated Concrete wall, 6" from expansion joint Concrete wall, 3/10/2014 3/18/2014 0.0512 Urregulated Concrete wall, 6" from expansion joint and 3-3.5" deep C2 Concrete wall, 3/10/2014 3/18/2014 0.0513 Urregulated Concrete wall, 6" from expansion joint and 3-3.5" deep C2 C2 C2 C2 C2 C2 C2 C	EJ2	3/10/2014	3/18/2014	158,000	Disposed	Expansion joint caulk - Exterior
C2 3/10/2014 3/18/2014 20.7 Disposed Cork backing further beneath caulk G3 3/10/2014 3/18/2014 6.650 Unregulated G-G-6" 0 3/10/2014 3/18/2014 0.0500 Unregulated G-G-6" 0 3/10/2014 3/18/2014 0.0500 Unregulated G-G-1" 0 3/10/2014 3/18/2014 0.0501 Unregulated G-G-1" 0 3/10/2014 3/18/2014 0.0501 Unregulated G-G-1" 0 3/10/2014 3/18/2014 0.0501 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0502 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0213 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0213 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0506 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0506 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0505 Unregulated G-G-2" 3/10/2014 3/18/2014 0.0215 Unregul	EJ3 3/10/2014 3/18/2014			425,000	Disposed	Expansion joint caulk - Exterior
C3 3/10/2014 3/18/2014 C5:05 Urregulated Concrete wall, 6" from expansion joint and 3-3.5" deep C5:05 C5				52,700	Disposed	Cork backing directly beneath caulk
O-G-6" 3/10/2014 3/18/2014 0.550 Unregulated Concrete wall, 6"from expansion joint and 3.3.5" deep O-G-12" 3/10/2014 3/18/2014 0.5012 Unregulated Concrete wall, 12" from expansion joint and 3.3.5" deep O-G-12" 3/10/2014 3/18/2014 0.963 Unregulated Concrete wall, 12" from expansion joint and 1-1.5" deep O-G-12" 3/10/2014 3/18/2014 0.963 Unregulated Concrete wall, 12" from expansion joint and 1-1.5" deep O-G-24" 3/10/2014 3/18/2014 0.963 Unregulated Concrete wall, 12" from expansion joint O-G-24" 3/10/2014 3/18/2014 0.0213 Unregulated Concrete wall, 6" from expansion joint O-G-12" O-G-24" 3/11/2014 3/18/2014 0.0213 Unregulated Concrete wall, 6" from expansion joint O-G-12" O-G-24" 3/11/2014 3/18/2014 0.0953 Unregulated Concrete wall, 6" from expansion joint O-G-12" O-G-	C2	3/10/2014	3/18/2014	20.7	Disposed	Cork backing further beneath caulk
0-G-12" 3/10/2014 3/18/2014 0.0313 Urregulated Concrete wall, 12" from expansion joint and 3-3.5" deep Co-6-24" 3/10/2014 3/18/2014 0.045 Urregulated Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 3-3.5" deep Concrete wall, 12" from expansion joint and 1-1.5" deep Concrete wall, 12" from expansion joint and 1-1.	C3	3/10/2014	3/18/2014	2.83	Disposed	Cork backing further beneath caulk
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09 11/21/2013 11/27/2013 5.12 Disposed Cork backing material, at depth beneath caulk					•	
	09	11/21/2013	11/27/2013	5.12	Disposed	Cork backing material, at depth beneath caulk

Table 1 PCB Characterization Data Filtered Water Basins Rehabilitation Project MDC

Reservoir No. 6

Sample	Sampling	Analysis	Total PCBs	Classification	Comments			
Identification	Date	Date	(mg/kg)	Classification	Comments			
Basin 2 (West Basin) Continued 10 11/21/2013 11/27/2013 14.9 Disposed Cork backing material, at depth beneath caulk								
10	11/21/2013	11/27/2013	14.9	Disposed	Cork backing material, at depth beneath caulk			
11	11/21/2013	11/27/2013	0.399	Disposed	Cork backing material, at depth beneath caulk			
12	11/21/2013	11/27/2013	0.778	Disposed	Cork backing material, at depth beneath caulk			
13	11/21/2013	11/27/2013	1.76	Disposed	Cork backing material, at depth beneath caulk			
14	11/22/2013	11/27/2013	450	Disposed	Cork backing material, at depth beneath caulk			
15	11/22/2013	11/27/2013	25.2	Disposed	Cork backing material, at depth beneath caulk			
16	11/22/2013	11/27/2013	10.1	Disposed	Cork backing material, at depth beneath caulk			
17	11/22/2013	11/27/2013	74.4	Disposed	Cork backing material, at depth beneath caulk			
18	11/22/2013	11/27/2013	1,760	Disposed	Cork backing material, at depth beneath caulk			
19	11/22/2013	11/27/2013	756	Disposed	Cork backing material, at depth beneath caulk			
3/4-C-0"	11/21/2013	11/27/2013	354	PCB RW	Concrete floor, at expansion joint			
3/4-C-3"		11/26/2013	16.7	PCB RW	Concrete floor, 3" from expansion joint			
3/4-C-3" D		11/30/2013	20.5	PCB RW	Concrete floor, 3" from expansion joint and 2-2.5" deep			
3/4-C-3" D	2/18/2014	2/20/2014	0.358	Unregulated	Concrete floor, 3" from expansion joint and 3.5-4" deep			
3/4-C-6"	11/21/2013		12.1	PCB RW	Concrete floor, 6" from expansion joint			
3/4-C-6" D		11/30/2013	3.02	PCB RW	Concrete floor, 6" from expansion joint and 2-2.5" deep			
3/4-C-9"	11/21/2013		5.70	PCB RW	Concrete floor, 9" from expansion joint			
3/4-C-12"	11/21/2013		4.39	PCB RW	Concrete floor, 12" from expansion joint			
3/4-C-14"	2/18/2014	2/20/2014	24.7	PCB RW	Concrete floor, 14" from expansion joint			
3/4-C-16"	2/18/2014	2/20/2014	13.7	PCB RW	Concrete floor, 16" from expansion joint			
0-C-0"	11/21/2013		3.98	PCB RW	Concrete wall, at expansion joint			
0-C-3"	11/21/2013		1.63	PCB RW	Concrete wall, 3" from expansion joint			
0-C-3" D	11/22/2013	12/1/2013	1.35	PCB RW	Concrete wall, 3" from expansion joint and 2-2.5" deep			
0-C-3" D	2/18/2014	2/20/2014	0.229	Unregulated	Concrete wall, 3" from expansion joint and 3.5-4" deep			
0-C-6"	11/21/2013		1.41	PCB RW	Concrete wall, 6" from expansion joint			
0-C-6" D	11/22/2013	21/1/13	0.744	Unregulated	Concrete wall, 6" from expansion joint and 3-3.5" deep			
0-C-9"		11/26/2013	0.606	Unregulated	Concrete wall, 9" from expansion joint			
0-C-12"	11/21/2013		1.17	PCB RW	Concrete wall, 12" from expansion joint			
0-C-14"	2/18/2014	2/20/2014	2.11	PCB RW	Concrete wall, 14" from expansion joint			
0-C-16"	2/18/2014	2/20/2014	1.58	PCB RW	Concrete wall, 16" from expansion joint			
18-C-0"		11/27/2013	20.5	PCB RW	Concrete wall, at expansion joint			
18-C-3"		11/26/2013	0.286	Unregulated	Concrete wall, 3" from expansion joint			
18-C-6"		11/26/2013	<0.0754	Unregulated	Concrete wall, 6" from expansion joint			
18-C-9"		11/26/2013	0.227	Unregulated	Concrete wall, 9" from expansion joint			
18-C-12"		11/26/2013	<0.073	Unregulated	Concrete wall, 12" from expansion joint			
16/17-C-0"	11/21/2013		33.5	PCB RW	Concrete floor, at expansion joint			
16/17-C-3"		11/26/2013	1.77	PCB RW	Concrete floor, 3" from expansion joint			
16/17-C-6"		11/26/2013	0.77	Unregulated	Concrete floor, 6" from expansion joint			
16/17-C-9"		11/26/2013	0.306	Unregulated	Concrete floor, 9" from expansion joint			
16/17-C-12"		11/26/2013	0.308	Unregulated	Concrete floor, 12" from expansion joint			
16-C-0" 16-C-3"		11/27/2013 11/27/2013	0.202	Unregulated	Concrete column, at cork backing Concrete column, 3" from cork backing			
			0.0863	Unregulated				
16-C-6" 16-C-9"		11/27/2013	<0.0725	Unregulated	Concrete column, 6" from cork backing Concrete column, 9" from cork backing			
16-C-9 16-C-12"		11/27/2013	<0.0604	Unregulated	Concrete column, 12" from cork backing			
5-C-0"		11/27/2013	0.687	Unregulated				
5-C-0"		11/27/2013 11/27/2013	0.132	Unregulated	Concrete column, at cork backing Concrete column, 3" from cork backing			
			0.161	Unregulated				
		11/27/2013 11/27/2013	0.0926 <0.058	Unregulated Unregulated	Concrete column, 3" from cork backing and 2-2.5" deep Concrete column, 6" from cork backing			
5-C-3" D			\U.U.) \\	unieguialeu	Concrete Column, o Trofff COLK DdCKINg			
5-C-6"								
	11/22/2013	11/27/2013 11/27/2013	0.222 0.163	Unregulated Unregulated	Concrete column, 6" from cork backing and 2-2.5" deep Concrete column, 9" from cork backing			

Table 1 PCB Characterization Data Filtered Water Basins Rehabilitation Project MDC

Reservoir No. 6

Complex Compling Applysic Total DCDs								
Sample	Sampling	Analysis	Total PCBs	Classification	Comments			
Identification	Date	Date	(mg/kg)	asin 2 (West Basir	n) Continued			
3/4-1-0"	11/22/2013	11/27/2013	0.412	Unregulated	Concrete floor, at cork backing			
3/4-I-3"	11/22/2013		0.289	Unregulated	Concrete floor, 3" from cork backing			
3/4-1-6"	11/22/2013		0.463	Unregulated	Concrete floor, 6" from cork backing			
9-J-0"	11/22/2013		<0.742	Unregulated	Concrete wall, at cork backing			
9-J-3"	11/22/2013		0.144	Unregulated	Concrete wall, 3" from cork backing			
9-J-3" D	11/22/2013		<0.0599	Unregulated	Concrete wall, 3" from cork backing and 2-2.5" deep			
9-J-6"	11/22/2013		0.104	Unregulated	Concrete wall, 6" from cork backing			
9-J-6" D	11/22/2013		<0.0674	Unregulated	Concrete wall, 6" from cork backing and 2-2.5" deep			
7/8-W/A-0"	11/22/2013		0.572	Unregulated	Concrete floor, at cork backing			
7/8-W/A-3"	11/22/2013		0.726	Unregulated	Concrete floor, 3" from cork backing			
7/8-W/A-5"	11/22/2013		0.656	Unregulated	Concrete floor, 6" from cork backing			
0/1-C-0"	11/22/2013	-	0.036					
0/1-C-0 0/1-C-3"				Unregulated	Concrete ceiling, at cork backing			
	11/22/2013		0.0792	Unregulated	Concrete ceiling, 3" from cork backing			
0/1-C-6"	11/22/2013		0.185	Unregulated	Concrete ceiling, 6" from cork backing			
0/1-C-9"	11/22/2013	12/1/2013	0.0918	Unregulated	Concrete ceiling, 9" from cork backing			
0/1-C-12"	11/22/2013	12/1/2013	0.171	Unregulated	Concrete ceiling, 12" from cork backing			
01	42/5/2042	12/0/2012		Exterior Basin 1 (
01	12/5/2013	12/9/2013	0.127	Unregulated	Concrete, 7" from expansion joint			
02	12/5/2013	12/9/2013	0.140	Unregulated	Concrete, 10" from expansion joint			
03	12/5/2013	12/9/2013	0.0327	Unregulated	Concrete, 5" from expansion joint and 2.5-3" deep			
04	12/5/2013	12/9/2013	<0.062	Unregulated	Concrete, 10" from expansion joint and 2.5-3" deep			
A-1.5"	4/28/2014	-	4,360	PCB RW	Concrete, 1.5" from expansion joint			
A-3"	4/28/2014	-	110	PCB RW	Concrete, 3" from expansion joint			
A-5"	4/28/2014	-	15.6	PCB RW	Concrete, 5" from expansion joint			
A-7"	4/28/2014	-	10.8	PCB RW	Concrete, 7" from expansion joint			
A-10"	4/28/2014	-	11.2	PCB RW	Concrete, 10" from expansion joint			
B-3"	4/28/2014	-	0.946	Unregulated	Concrete, 3" from expansion joint			
B-3" D	4/28/2014	-	4.67	PCB RW	Concrete, 3" from expansion joint and 2.5-3" deep			
B-5"	4/29/2014	-	0.946	Unregulated	Concrete, 5" from expansion joint			
B-7"	4/30/2014	-	0.600	Unregulated	Concrete, 7" from expansion joint			
B-10"	5/1/2014	-	1.33	PCB RW	Concrete, 10" from expansion joint			
D-1.5"	5/2/2014	-	467	PCB RW	Concrete, 1.5" from expansion joint			
D-3"	5/3/2014	-	52.9	PCB RW	Concrete, 3" from expansion joint			
D-3" D	5/4/2014	-	2.7	PCB RW	Concrete, 3" from expansion joint and 2.5-3" deep			
D-5"	5/5/2014	-	41.1	PCB RW	Concrete, 5" from expansion joint			
D-7"	5/6/2014	-	22.6	PCB RW	Concrete, 7" from expansion joint			
D-10"	5/7/2014	-	23.9	PCB RW	Concrete, 10" from expansion joint			
05	12/5/2013	12/9/2013	0.0347	Unregulated	Soil, 10" deep and above expansion joint and pea stone			
06	12/5/2013	12/9/2013	0.0247	Unregulated	Soil, 15" deep and above expansion joint and pea stone			
07	12/5/2013	12/9/2013	0.121	Unregulated	Soil, 10" deep and above expansion joint and pea stone			
0.5	10/5/5555	10/10/55:-		Exterior Basin 2 (\				
08	12/5/2013	12/10/2013	11.0	PCB RW	Soil, 11" deep and above expansion joint and pea stone			
09	12/5/2013	12/9/2013	1.83	PCB RW	Soil, 16" deep and above expansion joint and pea stone			
10	12/5/2013	12/9/2013	1.94	PCB RW	Soil, 18" deep and above expansion joint and pea stone			

Notes: Materials classified as disposed have been removed from the basins.

"3/4-G" - Sample IDs for interior concrete sampling start with with column lines (e.g., 3/4 being sampled between column lines 3 and 4 and along column line G).

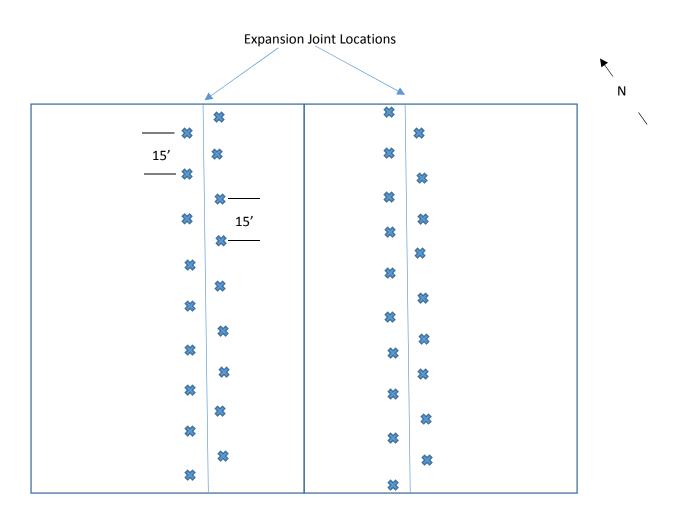
PCB Bulk Product Waste materials have been removed so remaining materials with PCBs >1 mg/kg are classified as PCB Remediation Wastes (PCB RW).

- In date analyzed column indicates that analytical data reports are not available and that data were taken from data tables prepared by previous consultant.

FIGURES



Figure 1
Concrete Sampling Schematic
Reservoir No. 6 Filtered Water Basin Rehabilitation Project

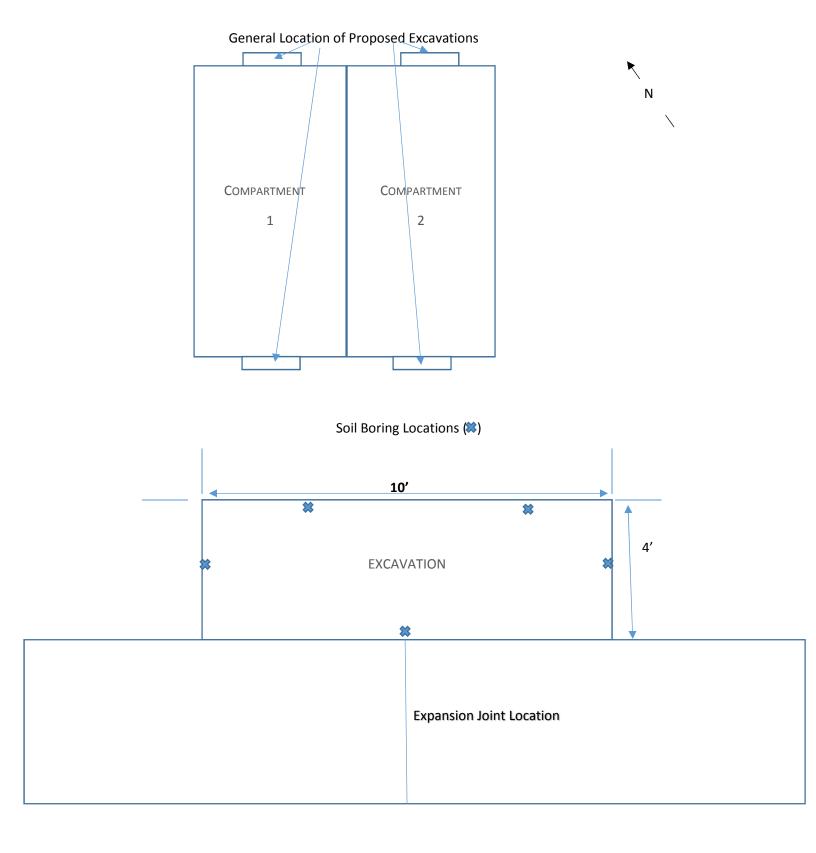


Verification Sample Location

Note: The same sampling frequency and determination of verification sample locations is proposed for both the basin interior and exterior. Sample locations may need to be adjusted based upon the presence of obstructions.

Figure 2

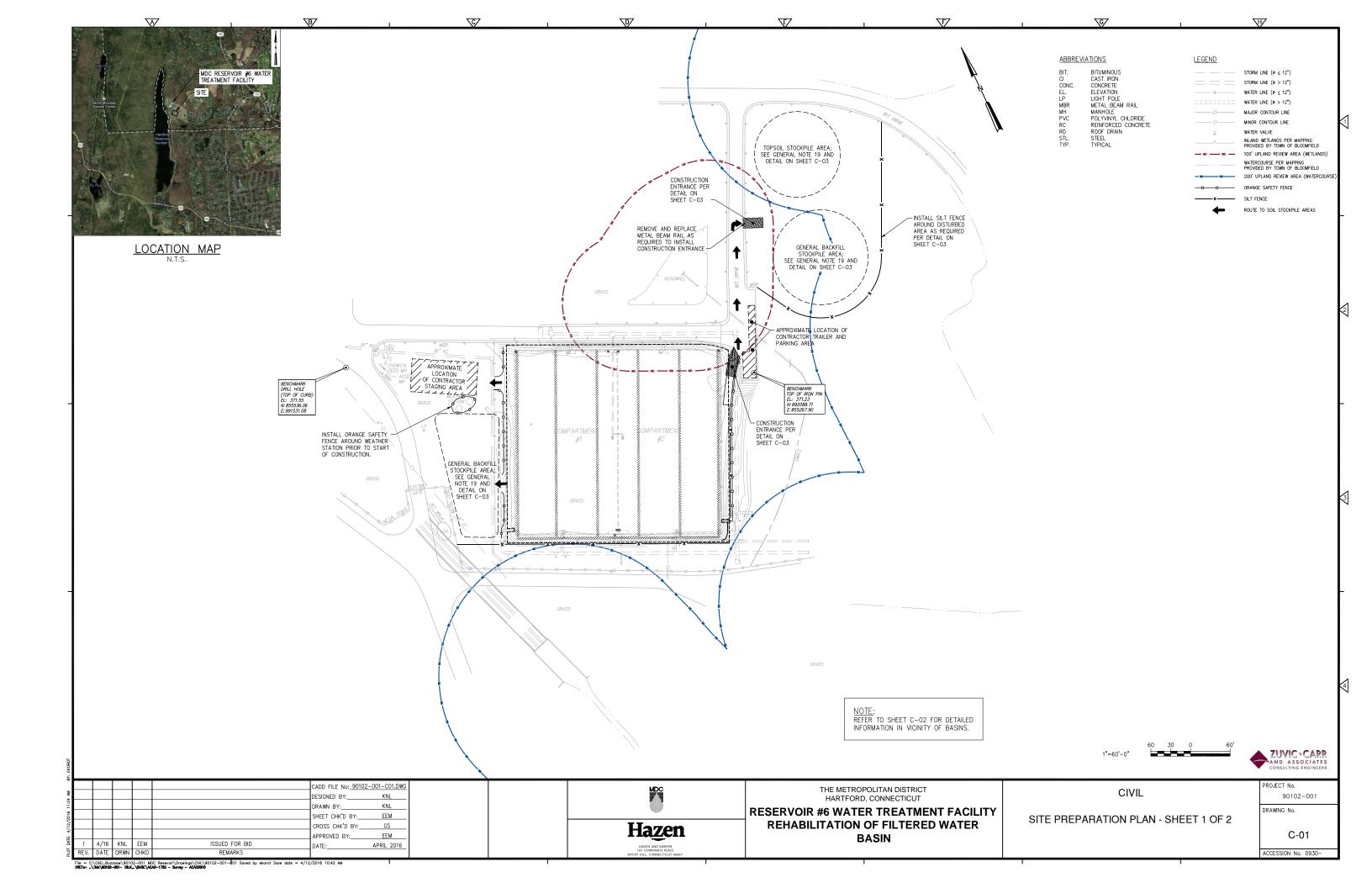
Basin Sidewall Soil Excavation Sampling Locations
Reservoir No. 6 Filtered Water Basin Rehabilitation Project

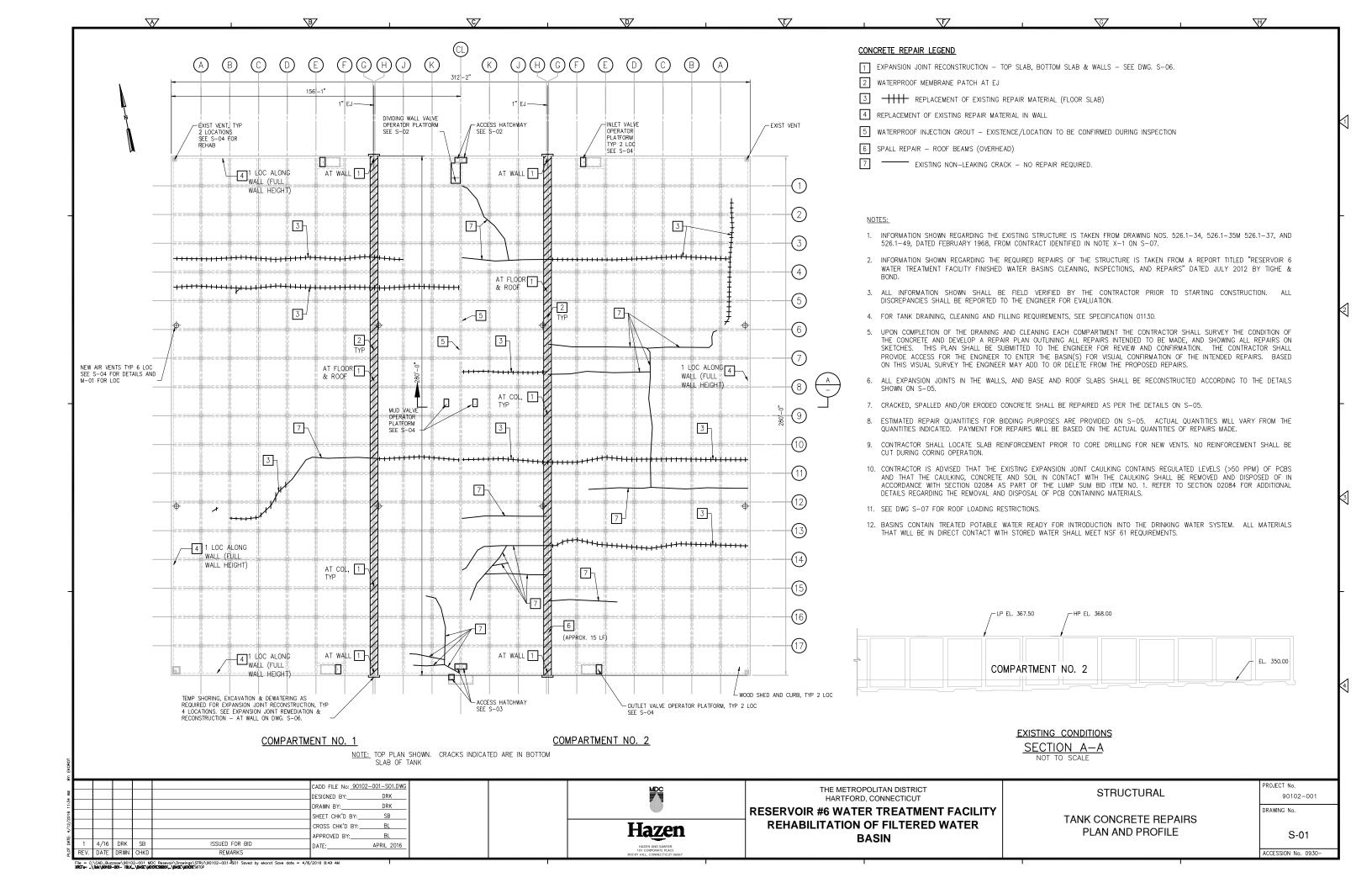


APPENDIX A

SELECTED CONTRACT DRAWINGS









WASTE MANIFESTS



Ple	ase pri	nt or type. (Form desig	ned for use on elite (12-pitch) typewriter.)						Approved. OMB No. 20	50-003	
1	W.	ORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number 4 0 CFRPART761	1 15	nergency Response 00 496-7746		4. Manifest	329	8027 JJ	K	
	් j- Gene	nerator's Name and Mailin 25 MAIN STRES ARTRORD OT rator's Phone:	FTAN DISTRICT T 08183 6 2 7 8 - 7 8 5 9	290	ator's Site Address (I E.M.ETROPO (I) ALBANY AN STHARTFO	VENUE :	ROUTE 06117	44	VOIR#6		
	12		TAL SERVICES, INC.				U.S. EPAID N		81180	2	
	7. Tra	nsporter 2 Company Nam	ee ee				U.S. EPA ID N	lumber	1	×	
	4 11		ALINC SITE # 2 LANOFILL 4 SERVICE DRIVE 48111	:			U.S. EPAID N		: 0 9 8 8 3	3	
	9a. HM		on (including Proper Shipping Name, Hazard Class, ID Numb	er,	10. Containe		11. Total Quantity	ia wasie G			
8	\vdash	¹ . RG UN3432, y	AASTE POLYCHLORINATED SIPHEN	YLS,	No.	Туре	Quantity	Wt./Vol.	CRO! PCS		
GENERATOR	X	SGLO, 8, PGI	*		004	CM	10000	×			
- GENE		2.						-		u-man gas sell.	
		3.	;e					•			
		4.			-						
	15. (ENERATOR'S/OFFERO	FIRMATION # 516311 ON 06/07/20 R'S CERTIFICATION: Thereby declare that the contents of I ded, and are in all respects in proper condition for transport a	this consignment are fully	Aid and accurately descriptional and nation	cribed above l	by the proper shi	pping name,		ed,	
	- 1		contents of this consignment conform to the terms of the attac imization statement identified in 40 CFR 262.27(a) (if I am a l			quantity gene	rator) is true.	Month Day	Year		
1	3	Sland	TOTAL TOTAL	1 /3	11	$Y \cap$			E S		
INT		ernational Shipments porter signature (for expor	Import to U.S.	Export from U.S.	Port of entry Date leaving						
RTER		nsporter Acknowledgment orter 1 Printed/Typed Nan		Signature				11	Month Day	Year	
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	_	iscrepancy Indication Spa	Ce Quantity Type	12V TIWI	Residue V	(GIVI)	Partial Reje		Full Rejection		
ΥΠ	18b. A	ternate Facility (or Genera			Manifest Reference N	lumber:	U.S. EPA ID N				
FACILITY	Facility	's Phone:	, v								
3NATED !	18c. S	gnature of Alternate Facili	ity (or Generator)						Month Day	Year	
177	19, Ha	zardous Waste Report Ma	anagement Method Codes (l.e., codes for hazardous waste tr	eatment, disposal, and n	ecycling systems)		1				
	1.	, 40		,	4	إسر					
		signated Facility Owner or	r Operator: Certification of receipt of hazardous materials cov	rered by the manifest exc Signature	ept as noted in item	188	X		Midnith Day	Year /	
ΕPΑ	Form	8700-22 (Rev. 3-05) P	Previous editions are obsolete.	-	1 11	DI	ESIGNATE	D FACIL	ITY TO GENERA	ATÓR	

FOR MANIFESTED PCB WASTE

ICB Selw	11k , Line Item has been landfilled on	in accordance with all local, state and federal regulations by:
es identified as	013298der) 11K	
certificate is to verify the wastes identified as	and specified on Manifest #	Ay 7 , 2044

Wayne Disposal, Inc. (EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

In the

Authorized Signature:



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Ple	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)		Y-12 4 1	Form Approved. OMB No. 2050-003						
1	UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 4 0 C F R P A R T 7 8 1 1	1 800 486-7745	4. Manifest Trac	781466 JJK						
	5. Generator's Name and Mailling Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 8 6 0 2 7 8 - 7 8 5 0 Generator's Site Address (if different than mailling address) THE METROPOLITAN DISTRICT / RESERVOIR 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117									
	6: Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.		U.S. EPA ID Numl	1 8 8 1 1 8 D 2						
	7: Transporter 2 Company Name Same as a Source	* ' ; ' ' ; '	U.S. EPA ID Numb	per						
	8. Designated Facility Name and Site Address WAYNE DISPOSAL INC SITE # 2 LANDFILL 49350 NORTH I94 SERVICE DRIVE BELLEVILLE MI 48111									
Ш	Facility's Phone: 800 592-5489		MIDO	48090633						
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	_	2. Unit 13. Waste Codes						
GENERATOR -	X SOLIDS, 9, PGII.			CR01 PCS1						
ERA		001 CM	10000	K L L						
- GEN	2.	a v. v.								
		A A S								
	3.									
	4.									
1 1	14. Special Handling Instructions and Additional Information 1) ERG # 171 PROFILE #	CHANGE AND THE STORE	4300							
	O.S.D. 08/09/2014 CONFIRMATION # 514004 ON 07/ 2 7 /201	4@ 69: 50 AM	AND	ESI JOB # 2013-1852 ESI PO # 59 53 0						
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment marked and labeled/placarded, and are in all respects in proper condition for transport according to applie Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknow I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity gen Generator's/Offeror's Printed/Typed Name	cable international and national gover vledgment of Consent,	nmental regulations. If ex	g name, and are classified, packaged, port shipment and I am the Primary Month Day Year						
+	JAMES E. METERHAM ALLA FOR 1.	0 ~ 8 m		107 25 14						
INTIL	16. International Shipments: Import to U.S. Export from U.S.	Port of entry/exit: Date leaving U.S.;	У							
	17. Transporter Acknowledgment of Receipt of Materials		1							
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RAN	Transporter 2 Printed/Typed Name Sig	mature 1 ()	4	Month Day Year						
1	18. Discrepancy	CAULU A	WWW.AAA	1 /12/11/9						
	18a. Discrepancy Indication Space Quantity Type	Residue VIGUES	Partial Rejection	Full Rejection $CK - (D-7.2 S-K)$						
LITY -	18b. Alternate Facility (or Generator) U.S. EPA ID Number									
FACI	Facility's Phone:		1							
SNATED FACILITY	18c. Signature of Alternate Facility (or Generator)	(Month Day Year						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposa	il, and recycling systems)	1.							
32	1.		4.							
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manif	The state of the s								
1	Printed/Typed Name Sig	nature 175		Month Day Year 7 23 14						

FOR MANIFESTED PCB WASTE

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Line Item has been landfilled on

 $L_{\text{el}}\gamma_{\text{l}}$ in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

The state of the s

Authorized Signature:



Ple	ease print or type. (Form designed for use on elite (12-pitch) typewriter.)	140152	18790.	1			Approved. O	MB No. 2050	0-0039
$ \uparrow$	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST 4 0 C F R P A R T 7 6	1 Zx 1	Emergency Response 800 488-7745		4. Manifest 01 f	278	1426	JJK	
	5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 08103 Generator's Phone: 8 6 0 2 7 8 - 7 8 5 11	HE METROPO 900 ALBANY A	ite Address (if different than mailing address) TROPOLITAN DISTRICT / RESERVOIR # 8 BANY AVENUE & ROUTE 44 ARTFORD CT 08117					ř.	
П	6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.	The same of the sa	al .		U.S. EPAID		8 8 1 1	802	
П	7. Transporter 2 Company Name				U.S. EPA ID N				
$\ \ $	EDVINENMENTED Servi	ce S			ICT	0018	881181	ìQ.	
	8. Designated Facility Name and Site Address SPRING GROVE RESOURCE RECOVERY, INC. 4879 SPRING GROVE AVENUE CINCINNATI OH 45232		1		U.S. EPA ID N	lumber			
П	Facility's Phone: 513 881-8242				OHD	000	9 1 6	6 2 9	
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID and Packing Group (if any))	Number,	10. Contain No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Was	ste Codes	
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	15. GENERATOR'S/OFFEROR'S CERTIFICATION: Thereby declare that the conte					pping name.	and are classific	ed. oackaged:	-
	marked and labeled/placarded, and are in all respects in proper condition for tran Exporter, I certify that the contents of this consignment conform to the terms of th I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I Generator's/Offeror's Printed/Typed Name	nsport according to applicable ne attached EPAAcknowledg am a large quantity generat	e international and nation ment of Consent. or) or (b) (if I am a sma	onal governm	ental regulations.	If export ship	oment and I am	the Primary	
1	JAMES F. AFTERNANT ASSET	Signatu	5	M			Month 7	Day 1	ear .
ILL	16. International Shipments Import to U.S.	Export from U.S.	Port of ent	rv/exit:			107	12 1	7
	Transporter signature (for exports only):		Date leaving						
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FAC	Facility's Phone:	*P	5 ⁰		1				
GNATED FACILITY	18c. Signature of Alternate Facility (or Generator)	, I	1 8				Month	Day	Year
2	19. Hazardous Waste Report Management Method Codes (i.a., codes for hazardous w	vaste treatment, disposal, an	d recycling systems)						-
	1. 1/1/// 2.	3,	- 1.50 journing dijutorinaj		4.				
	20 Designated Facility Courses Country Courses			40					_
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous material Printed/Typed Name	als covered by the manifest Signatu		18a	2		Month-	Day Y	ear
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ſ	1	UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21 Generator ID Number 40 CFR PAPT 761	22. Page 23 2		1278	mber	m Approved	970	
T		24. Generator's Name				7 7 7 7	1 30			
		25. Transporter 3 Company Name Rb 26. Transporter Company Name	ubic D. Wa	strict and In	c	U.S. EPAID U.S. EPAID	36	7138	門	
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DESIGNAT				James dystolital				5 1		
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1	WA	ORM HAZARDOUS ASTE MANIFEST			R T 7 8		1 180	ergency Respons IO 486-7745	i	4. Manifest 01	329	9801	.9 J.	JK
	5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT THE METROPOLITAN DISTRICT 5.5.5 MAIN STREET HARTFORD CT 0.8103 Generator's Phone: 3 5 0 2 7 8 - 7 8 5 0 Generator's Name and Mailing Address THE METROPOLITAN DISTRICT/ RESERVOIR # 8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 0.8117													
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	8. Designated Facility Name and Site Address WAYNE DISPOSALING SITE # 2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 300 592-5480													
11	racility			r										
	9a. HM							10. Conta	11. Total Quantity	12. Unit Wt./Vol.	I La Wasie Cones			
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	0.	14. Special Handling Instructions and Additional Information 1) ERG # 171 PROFILE # F149128WDI FILTER SAND O.S.D. 06/09/2014 CONFIRMATION # 515767 ON 08/04/2014 @ 01/40 AM ESI JOB # 2013-1052 ESI PO # 54543 C9 # 067												
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, pack marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Prim Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												ged, ry	
ļ	Generator's/Offeror's Printed/Typed Name Signa							41	YX			Month Day Year		
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SNATED FACILITY		ernate Facility (or Genera s Phone:	tor)	er G	U.S. EPA ID Number									
SNATED	18c. Signature of Alternate Facility (or Generator) Month Day Yes												Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 2. 3.									4.					
	20. Des	ignated Facility Owner or	Operator: Certifica	tion of receipt of h	azardous materiale	covered by the		of as noted in the	n 18a					n e
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month										-	Year		
+		No.			Wille	7	1	-	~ LL	n_			8 1 4	114

FOR MANIFESTED PCB WASTE

	has been landfilled	federal regulations by:
PCB 5-11.2	_, Line Item_	ocal, state and
verify the wastes identified as	7166 913 25 9015 7175	_ in accordance with all local, state and federal regulations by:
s certificate is to verify the wast	and specified on Manifest#	Ay 4 , 2014

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Ple	ase print os type. (Form desi	igned for use on elite (12-pitch) type	pewriter.)					Form	n Approved. OME	No. 2050-003
	UNIFORM HAZARDOUS WASTE MANIFEST		2. F		ergency Response 10 486-7745		4. Manifest		umber 38017	JJK
Π	5. Generator's Name and Maili THE METROPOL 555 MAIN STREE HARTFORD CT Generator's Phone: 9 8	ET 1 06103	5 Q	2900	NETROPO ALBANY A ST HARTFO	WENUE	an mailing addres DISTRICT / & ROUTE	SS) RESEF	8 # RIOVS	JOIN
$\ $	6. Transporter 1 Company Nar ENVIRONMEN	me TAL SERVICES, INC.				ž.	U.S. EPAID		88111	802
П	7. Transporter 2 Company Nan	ne			4		U.S. EPAID	lumber		
	Designated Facility Name ar	nd Site Address	A				U.S. EPA ID N	Number	- "	
	49350 NORTH 19 BELLEVILLE MI)**ILL_		*				5*2	
П	Facility's Phone: 800 5						MID	0 4	80801	3 3 3
	9a. 9b. U.S. DOT Description HM and Packing Group (if	tion (including Proper Shipping Name, I any))	Hazard Class, ID Number,		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste	Codes
TOR	# RQ UN3432, 1 SOLIDS, 9, P	WASTE POLYCHLORIN. GII.	ATED BIPHENYLS,						CR01 PC	B1
GENERATOR	2.				001	CM	10000	K		
- GE		an r ^{iĝ} i								
	3.									
		1.7			is.					-
	4.									T)
Ц	14. Special Handling Instruction	-							,	
T I	0 5.D 08/09/2014	4 CONFIRMATION # S	re that the contents of this cons	72014 @	of: 20	AM scribed above	by the groper shi	poing name	ANSHOT	54543 99
	Exporter, I certify that the	rded, and are in all respects in proper contents of this consignment conform to initial in 40 CF read that are the conformation statement identified in 40 CF read Name	o the terms of the attached EPA	Acknowledamen	t of Consent.			If export shi	pment and I am the	Primary Day Year
<u> </u>	16. International Shipments	Gregort		1 1	201 Y	Y)		181	
INT'L	Transporter signature (for expo	Import to U.S. orts only):	Ехро	ort from U.S.	Port of ent Date leavin	,	/			
FR	17. Transporter Acknowledgmen			1)	1		1	/		
TRANSPORTER	Transporter 1 Printed/Typed Nar	1 Haberto		Signature	Toral	11	1/15	4	Month.	Day Year,
TRAN	Transporter 2 Printed/Typed Nat	The Bents	#U	Signature	In I		111	an-	Month /	Day Year
1	18. Discrepancy	5#	- I	11	1	y . 2	10.			
ŀ	18a. Discrepancy Indication Spa	ace Quantity	Туре	<i>A</i> [Residue		Partial Reje	ction	C Full	l Rejection
)LITY	18b. Alternate Facility (or Gener	ator)		M	anifest Reference	Number:	U.S. EPA ID N	umber		
INATED FACILITY	Facility's Phone: 18c. Signature of Alternate Facil	lity (or Generator)	- 4	55.6					Toxas	Day Vers
SNATE			esi,		B				Month	Day Year
90	19. Hazardous Waste Report Ma	anagement Method Codes (i.e., codes	for hazardous waste treatment,	disposal, and rec	ycling systems)			1		
1	· KB	2.		3.			4.			
		r Operator: Certification of receipt of ha	azardous materials covered by t		ot as noted in Item	18a			6	
	Printed/Typed Name	ml	Week	Signature I	my	wh			Month I S I	Day Year

PLB 5.12

This certificate is to verify the wastes identified as

and specified on Manifest #

013298017 JUL

Line Item

has been landfilled on Loty in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Felephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Plea	ise pri	int or type. (Form designed for use on elite (12-pitch) typewriter.)	15				n Approved. OMB No. 2050	0-0039
1			Emergency Response 800 488-7745	e Phone	4. Manifest		^{umber} 1431 J JK	
1	5. Ger	enerator's Name and Mailing Address Ge HE METROPOUTAN DISTRICT TI	nerator's Site Address	(if different the	an mailing addres	s) DEQEE	NOIP #8	
гſ		55 MAIN STREET 20	O ALBANY A	WENUE	& ROUTE	44	A COURT & C	i
Ш.			ESTHARTEC					
П		erator's Phone: 280 278-7850		-	U.S. EPA ID N	lumbor		_
П		ansporter 1 Company Name ENVIRONMENTAL SERVICES, INC.					8811802	
П		ansporter 2 Company Name	1.00		U.S. EPA ID N			
Н		Total Loverpay (Land	4		1			
П	8, Des	signated Facility Name and Site Address			U.S. EPA ID N	lumber		
П		VAYNE DISPOSALING SITE # 2 LANOFILL	5. 8					
П		9350 NORTH 194 SERVICE DRIVE JELLEVILLE MI 48111			. 1			
		ly's Phone: 900 592-5489			MID	0 4	8090833	
П	9a.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	10. Contai	ners	11. Total	12. Unit	13. Waste Codes	
	НМ	and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.	10, 1140,0 00400	_
18	w/	1-RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS,					CR01 PC81	
ATC	X	SOLIDS, 9, PGII.	001	CM	10000	14		
GENERATOR	_	2.	0 4 5	(2141)	10000	- / \		-
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		pecial Handling Instructions and Additional Information 1)ERG # 17:1 PROFILE # F1	19127WD1 Fil	Jer Sa	MD-0:5.D	1_	DI 100 H 0010 1070	00.507
П	CR	8/08/2014 CONFIRMATION # 512482 ON 07/22/2014 @ 09:00 AM				15	SI JOB#2013-1062 SI PO# <i>5</i> 9399	
		v				19	14/1/020	
Ш	15. 0	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are	ully and accurately de	scribed above	by the proper sh	ipping name	e, and are classified, packaged	, =
Ш	n	marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledge	international and nat	ional governm	ental regulations.	If export sh	ipment and I am the Primary	
Н		I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generat		all quantity ger	nerator) is true.			
	Gener	rator's/Offeror's Printed/Typed Name Signatu	1201V	$\overline{}$	λ		Handwick Committee	Year
4	- 1	Brian Gragory	105-1	Y (()		17 118 11	1
INT.L		ternational Shipments Import to U.S. Export from U.S.	Port of er					
	1	sporter signature (for exports only):	Date leav	ing U.S.:				\dashv
岜		ransporter Acknowledgment of Receipt of Materials porter 1 Printed/Typed Name Signatu	e /	- 1	-777	1	Month Day	Year
ğ		JOSEPH T. ROBERT	And	1	111		17/81	14
ISN	Transp	porter 2 Printed/Typed Name Signate	(e // / /	11 1	95		Month Day	Year,
TRANSPORTER		Jusepl J Juliants	Carpo 2	7/0	K-		1711	14
1	18. Dis	iscrepancy	11					
Ш	18a. D	Discrepancy Indication Space Quantity Type	Residue	/	Partial Rej	ection	Full Rejection	1
Ш	A	Discrepancy Indication Space Quantity Type If the CI WAIGHT 12 73616 CL PARTY TYPE	Majerno	m) ct	The state of the s		D 7.25-14	
<u>-</u>	18h A	Alternate Facility (or Generator)	Manifest Reference	Number:	U.S. EPA ID N			\dashv
틸	100.7	nicitiate) admy for dentation	S. A.E.		Q.O. LI AID I	diliboi		
FA FA	Facility	ty's Phone:			Ĩ			
		Signature of Alternate Facility (or Generator)			-		Month Day	Year
GNATED FACILITY		200 200 200 200 200 200 200 200 200 200						
ĪΘ	19. Ha	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, ar	d recycling systems)					
ار	1.	R (17) 2.			4,			
								-
		esignated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest ad/Typed Name Signatu		n 18a			Month Day	Year
	· mitter	Cack Listman	31				10001 Day	11
*		TOOK CISMALOW	1				1/02/1	- 4

MCB 5.17 This certificate is to verify the wastes identified as

and specified on Manifest #

012781431 1/16 Line Item (

has been landfilled on

Toly in accordance with all local, state and federal regulations by: J-14 22

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official is true accurate and complete.

Mr. Why

Ple	ase print or type. (Form design	gned for use on elite (12-pitch)	typewriter.)						Approved. OMB No. 2050-00		
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number 4 C C F R P A	RT781,	7	Emergency Respons	5	4. Manifest	278	1401 JJK		
	5. Generator's Name and Malif THE METROPOL 555 MAIN STREE HARTFORD CT Generator's Phone: 8 8	LTAN DISTRICT 00103 0 2 7 8 - 7 8	5 D		enerator's Site Address HE METROPO 900 ALBANY / VEST HARTFO	DLITAN I AVENUE	nan mailing addre DISTRICT / & ROUTE	ss) RESER			
Ш	6. Transporter 1 Company Nam ENVIRONMEN	ne TAL SERVICES, INC					U.S. EPA ID I		3811802		
	7. Transporter 2 Company Nan	ne					U.S. EPA ID N	Number	-		
П	Designated Facility Name ar	nd Site Address		Sin Sing B		1	ALLS EPAIDA	Jumher			
	8. Designated Facility Name and Site Address GLEAN-HARDORG OF BRAINTFREETING WAYNE DISPOSAL INCSITE #2 LANDFIL GLEAN-HARDORG OF BRAINTFREETING WAYNE DISPOSAL INCSITE #2 LANDFIL HILL AVENUE BRAINTFREETING BELLEVILLE, MI. 4811						MIDO	MID048090633			
	Facility's Phone: 781 3	30=7+80	800-592-	5489					3-4-5-2-8-3-7 m		
		on (including Proper Shipping Name	e, Hazard Class, ID Number,		10. Conta	iners Type	11. Total Quantity	12, Unit Wt./Vol.	13. Waste Codes		
OR -	1 RQ UN3432, N SOLIDS, 9, PC	MASTE POLYCHLORI	NATED BIPHENY	LS,					CR01 PCB1		
GENERATOR	and the management of the transport of t	su-) i [l P	001	CM	9400	X			
- GEN	2.	*				21	98				
	3.						-				
	4.										
	14. Special Handling Instruction	s and Additional Information	1)ERG \$ 171 PR	OFILE#E	491277ADLEU	TER SA	ND OSD				
	06/19/2014 CONF	is and Additional Information FIRMATION # 5 110	67 ON 07/1	4/2014@	7:20 A	Ad _	332 (132 4)	ES	SI JOB # 2013-1052 SI PO # 592 84		
	marked and labeled/placar Exporter, I certify that the	R'S CERTIFICATION: I hereby de- rded, and are in all respects in prop- contents of this consignment confor- imization statement identified in 40	er condition for transport acco m to the terms of the attache	ording to applicab d EPA Acknowled	e international and nat ment of Consent,	ional governm	ental regulations.	pping name, If export ship	and are classified, packaged, ornent and I am the Primary		
1	Generator's/Offeror's Printed/Ty	ped Name		Signat		YX			Month Day Year		
INT'L	16. International Shipments	Import to U.S.		Export from U.S.	Port of en		-				
	Transporter signature (for exportant and a signature) 17. Transporter Acknowledgment	77			Date leavi	ng U.S.;					
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ISPO	_ JUSTOH	J. 16 3200	3		Joseph .	11	11-5	-	17/1/19		
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1	18. Discrepancy					320			7		
	18a. Discrepancy Indication Spa	Quantity	Туре	a positive.	Residue Manifest Reference	Number	Partial Reje	ection	Full Rejection		
ILITY	18b. Alternate Facility (or General	ator)					U.S. EPA ID N	umber			
FAC	Facility's Phone:						Î				
INATED FACILITY	18c. Signature of Alternate Facili	ity (or Generator)							Month Day Year		
7	19. Hazardous Waste Report Ma	anagement Method Codes (i.e., cod	es for hazardous waste treati	ment, disposal, ar	d recycling systems)						
<u>د</u> ا	1. RE	2.		3.			4.		N		
		Operator: Certification of receipt of	hazardous materials covere			18a		Ţê.	7		
\downarrow	Printed/Typed Name	Stiller		Signatu		5		2	Month Day Year		

Authorized Signature:

This certificate is to verify the wastes identified as

Mr 101181210

Line Item

M.5 821

has been landfilled on

and specified on Manifest #

2014

in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

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2/22/11

Ple	ease print or type. (Form design	gned for use on elite (12-pitch) typewriter.)		307				For	m Approved	OMB No.	2050-003
1	USFORM HAZARDOUS		2. Page 1 of		gency Response		4. Manifest	Tracking !	Number		
П	WASTE MANIFEST	4 O C F R P A R T 7 6 1	4	1 800	1488-7745		01	325	9800)6 J	JK .
	565 MAIN STREE HARTFORD OT Generator's Phone: 8 ft	LITAN DISTRICT. ET 06103 - 0 2 7 8 - 7 8 5 0		2900	or's Site Address METROP(ALBANY A THARTFO	MENAE	nan mailing addre DISTRICT / & ROUTE 06117	ss) RESE 44	RVOIR #	ð	
		TAL SERVICES, INC.	130 Ž×		1		U.S. EPAID I		881	18(2
	7. Transporter 2 Company Nam	And the state of t		¥			U.S. EPAID N	Number			
		ALINC SITE # 2 LANOFILL 4 SERVICE DRIVE					U.S. EPA ID 1	Number			
П	Facility's Phone: 200 5						M i D	0 4	809	083	3 3
	9a. 9b. U.S. DOT Description HM and Packing Group (if a	ion (including Proper Shipping Name, Hazard Class, ID Number, any))			10, Contair No.	Type	11. Total Quantity	12. Unit Wt,/Vol.	1.3.	Waste Code	es
GENERATOR -	¹ . AG UN3432, N SOUD, 9, PGR	NASTE POLYCHLORINATED BIPHENY	.5,				14 . 3 s		CROT	Pest	RB
IER/	4 4		Twoladi	199	0.0 1	CM	10,000	K		17 50	
- GEN	l for misse			ter Y		\$ 1.18					
	3.	* - ·		3-1							
	4. 14. Special Handling Instruction	ed .		-							
	marked and labeled/placan Exporter, I certify that the c	R'S CERTIFICATION: I hereby declare that the contents of this rided, and are in all respects in proper condition for transport according to this consignment conform to the terms of the attached imization statement identified in 40 CFR 262.27(a) (if I am a large	consignment a ording to applic	re fully ar able interred edoment o	national and nation	cribed above onal governme	by the proper shi ental regulations.	poing nam	SI JOĐ t SI PO # e, and are clas nipment and I	ologo sified pack	53 °)
	Generator's/Offeror's Printed/Typ	ped Name	Sign	ature					Mor	370 115000	
+	16. International Shipments	Nettleton		YY	ione 1	rut	thin i		0	7 29	114
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_	17. Transporter Acknowledgment				Date leavin	ig 0.5		/			Size -
R	Transporter Printed/Typed Nam	ne I B A LES	Sign	ature	12: 1	/ ,	11		Mon	th Day	Year
SP	Transporter 2 Printed/Typed Nan	1.160 DE/US		1	tor for t	1	21/1mg	2		7/24	1/4
TRANSPORTER	18. Discrepancy	Roberts	J/	ature	2 pl 12	2/4			Mon L	th Day 2 30	Near /
Î	18a. Discrepancy Indication Space	ce Ti	500	<u> </u>	1					_	1
	Olto make 11	UType UY (C+(ONE DEX DENISE BI	orus i	W. F.	Residue A	ALG	Partial Reje		L	Full Reje	ection
FACILITY	18b. Alternate Facility (or General	ator)	Trails 1917	1	200		U.S. EPA ID N	umber ‡	5	2 .	
- 1	Facility's Phone: 18c. Signature of Alternate Facilit	ty (or Generator)			Ţ	-			Mor	nth Day	Year
8	19. Hazardous Waste Report Ma	magement Method Codes (i.e., codes for hazardous waste treatment	ment, disposal,	and recyc	cling systems)						
1	Prb	2.	3.				4.				
		Operator: Certification of receipt of hazardous materials covered			as noted in Item	18g			1		
\downarrow	Printed/Typed Name	wsh/h	Sign	ature	1	>	7	-	Mon	th Day	Year

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011529 8006 111C and specified on Manifest #

has been landfilled on , Line Item_

in accordance with all local, state and federal regulations by: 4102

Wayne Disposal, Inc.

EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

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1401156574

ease print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS: 1 Generator ID Number 2. Page 1 of 3			2.4	Еоп	n Approved, OMB No. 205
WASTE MANIFEST 40 CFRPART 7 8 1 1	: Emergency Response 300 486-7748		4. Manifest	Tracking N	Contract Con
5. Generator's Name and Mailing Address THE METROPOUTAN DISTRICT 555 MAIN STREET HARTFORD CT 05:03 V Generator's Phone: 8 5 0 2 7 8 - 7 8 5 0	enerator's Site Address HE METROPO 900 ALBANY A VEST HARTFO	NATUC BUNBVI	han mailing addre DISTRICT / & ROUTE	ss) RESEF	
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.		i.i	U.S. EPAID I		8811802
7. Transporter 2 Company Name			U.S. EPA ID N	lumber	
8. Designated Facility Name and Site Address CLEAN HARBORS OF BRAINTREE, INC. LHILLAVENUE BRAINTREE MA 02184 Facility's Phone: 781 380-7100		1-12-10	U.S. EPAID		3 4 5 2 8 3 7
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Contail	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X 1.R. UN2315, WASTE POLYCHLORINATED BIPHENYLS,	0 0 1	77	4255	к	CR01 MA02
2.	001	1)	9433	0	.,
3.		- 1 4			
4.	13		*		
8 % 51 hds Soler or 3 < # 14011 3 5. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are to the soler of the soler o	fully and accurately des	scribed above	hy the proper shi		SI PO # 59344
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledg I certify that the waste minimization statement identified in 40 CFR 262,27(a) (if I am a large quantity generate	ment of Consent. or) or (b) (j§l am a sma	-	nental regulations.	If export shi	pment and I am the Primary
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledg Learning that the waste minimization statement identified in 40 CFR 262,27(a) (if I am a large quantity generate Generator's/Offeror's Printed-Typed Name	ment of Consent. or) or (b) (j§l am a sma	-	nental regulations.	If export shi	a, and are classified, packaged pment and I am the Primary Month Day
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledg I certify that the waste minimization statement identified in 40 CFR 262,27(a) (if I am a large quantity generated Generator's/Offeror's Printed/Typed Name Signature 16. International Shipments	ment of Consent. or) or (b) (j§l am a sma	If quantity ge	nental regulations.	If export shi	pment and I am the Primary Month Day
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledg I.certify that the waste minimization statement identified in 40 CFR 262,27(a) (if I am a large quantity generated Senerator's/Offeror's Printed/Typed Name Comparison of the attached EPA Acknowledge Quantity generated Signature (for exports only): Import to U.S. Export from U.S. Import for U.S. Importer Acknowledgment of Receipt of Materials Importer 1 Printed/Typed Name Signature Signatu	Port of ent Date leaving	If quantity ge	nental regulations.	If export shi	pment and I am the Primary Month Day
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledg Lerdify that the waste minimization statement identified in 40 CFR 262,27(a) (if I am a large quantity generated Generators/Offeror's Printed/Typed Name Signature of the attached EPA Acknowledge Quantity generated Signature (for exports only): 16. International Shipments	Port of ent Date leaving	If quantity ge	nental regulations.	If export shi	Month Day Month Day Month Day
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1	UNIFC M HAZARDOUS 1. Generator ID Number	2. Page 1 of	Emergency Response	e Phone	4. Manifest	Tracking N				
Н	WASTE MANIFEST 40CFRPART7	61 1	1 800 486-7745		UL	18	1100 .	JJK		
	5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 8 8 6 2 7 8 - 7 8 5 0		Generator's Site Address THE METROPO 2900 ALBANY A WEST HARTFO	NATUK BUNBW	han mailing addres DISTRICT / & ROUTE	ss) RESEF		80		
П	6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.				U.S. EPAID		88118	0 2		
П	7. Transporter 2 Company Name					U.S. EPA ID Number				
П	8. Designated Facility Name and Site Address					lumbor		-		
	WAYNE DISPOSALING SITE # 2 LANDFILL 49350 NORTH 194 SERVICE DRIVE					U.S. EPA ID Number				
П	BELLEVILLE MI 48111				laa i es	0.4		2 2		
П	Facility's Phone: SOO 502-5480				1341 1 177	U 4	80900	3 3		
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class HM and Packing Group (if any))	ss, ID Number,	10. Contai No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13, Waste Co	odes		
8	1 RQ UN3432, WASTE POLYCHLORINATED S	APHENYLS,			13000		CRO1 PCS	5		
GENERATOR	SOLID, 9, PGII.		001	CM	7482-	К				
GEN	2.				(D)					
	3.							ĺ		
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	4.									
	14. Special Handling Instructions and Additional Information 1)ERG	#171 PROFILE#	PHOROGOD PH	CB CAU	LKING O.S	.D.				
1	04/01/2014	PROFILER	14902111	M			SI JOB # 2013			
		1	*		ESI PO# 58904					
		6, 6/12/1		35 N	M	_ 1	CAN # 086			
	 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the emarked and labeled/placarded, and are in all respects in proper condition fo Exporter, I certify that the contents of this consignment conform to the terms 	r transport according to applica	ble international and national	scribed above onal governm	e by the proper shi nental regulations.	pping name If export sh	e, and are classified, pa ipment and I am the Pr	ickaged, imary		
	l certify that the waste minimization statement identified in 40 CFR 262.27(a	a) (if I am a large quantity gener	rator) or (b) (if I am a sma	II quantity ge	nerator) is true.		Manual D	V		
ļ	Brian S. Gragory	Sign	MANY	VT	ĺ		Month D	ay Year		
INT'L	16. International Shipments Import to U.S.	Export from U.		,	,					
			Date leavi	ng U.S.:						
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TRANSPORTER	Transporter 2 Printed/Typed Name	Signa	ature	11	7			ay Year		
			South 1	166-3	-		16 1	114		
1	18. Discrepancy				100000			,		
	18a. Discrepancy Indication Space Quantity	Туре	Residue		Partial Reje	ction	Full R	ejection		
1	or to respect waste node par									
H	18b. Alternate Facility (or Generator)				U.S. EPA ID N	umber				
) FA(Facility's Phone:				1					
GNATED FACILITY	18c. Signature of Alternate Facility (or Generator)						Month D	ay Year		
ର୍	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardo	ous waste treatment, disposal,	and recycling systems)					1		
لماري	1. RCB 2.	3.			4.		,			
- 18	Lanca San Carlotte Control of the Carlotte Control of				1					
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous m Printed/Typed Name	naterials covered by the manifes		18a						

1.1.3 82/ This certificate is to verify the wastes identified as

and specified on Manifest #

, Line Item ___ has been landfilled on 71 m 00118 L 210

in accordance with all local, state and federal regulations by: Lory

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official is true accurate and complete.



Ple	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)	Allins down the state	Form	Approved. OMB No. 2050-0039		
1	WASTE MANIFEST 40CFRPART781 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Nu 01278	1102 JJK		
	JUNE METROPOLITAN DISTRICT 555 MAINI STREET HARTFORD CT 06103 Generator's Phone: 8 8 0 2 7 8 - 7 8 5 0	Generator's Site Address (if different to THE METROPOLITAN I 2000) ALBANY AVENUE WEST HARTFORD CT	DISTRICT / RESER & ROUTE 44 106117	VOIR#8		
	6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.		U.S. EPA ID Number	8 8 1 1 9 0 2		
	7. Transporter 2 Company Name 2	. He are we see a see		4		
П	0					
	8. Designated Facility Name and Site Address VAYNE DISPOSALING SITE #-2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 800 592-5489		U.S. EPA ID Number			
П	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,	10. Containers	11. Total 12. Unit			
П	HM and Packing Group (if any))	No. Type	Quantity Wt./Vol.	13. Waste Codes		
GENERATOR	RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SALID, 9, PGII.	0 0 1 CM	13,709 K	CR01 PESS		
NER	2.		13, 161 22,			
99						
	3.	age of the confidence of the c		\$11 TO 12 20 1		
	4					
	14. Special Handling Instructions and Additional Information 1) FRG # 171 PROFILE #	1/2X/14/) PCB CAU	LKING OSD. L			
	04/01/2014 Appointment:	7,70	ES	SI JOB # 2013-1052 SI PO # 5'89 0'4		
	Thors 6/5/14 at 9:40 Am approval # IT 10 15. GENERATOR'S/OFFEROR'S CERTIFICATION: Thereby declare that the contents of this consignment are			An # 03B		
	marked and labeled/placarded, and are in all-respects in proper condition for transport according to applica	ible international and national governi				
	Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowle I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity gener		nerator) is true.	3		
	Generator's/Offeror's Printed/Typed Name Signs Signs	ature / M	waterships with the	Month Day Year		
+	16. International Shipments	S. 1 1 X	10 10 10 10 10 10 10 10 10 10 10 10 10 1	05 H 1-1		
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-	17. Transporter Acknowledgment of Receipt of Materials			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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IRA	Joseph J. Mente	Chand 111		1614114		
<u>+</u>	18. Discrepancy	1-1-1-1-1		101111		
	18a. Discrepancy Indication Space Quantity Type	Residue	Partial Rejection	Full Rejection		
		Pence Paris				
∠	CV to commend wasterude a add approval # TX 18b. Alternate Facility (or Generator)	Manifest Reference Number:	,U.S. EPAID Number :: .	Care Care and the second		
등		4 + + - + - + - + - + - + - + - + - + -	F-3-24 An inches	70.79024		
FA(Facility's Phone:					
TED	18c. Signature of Alternate Facility (or Generator)		-	Month Day Year		
GNATED FACILITY	•					
	19. Hazardous Waste Report Management Method Codes (I.e., codes for hazardous waste treatment, disposal,	and recycling systems)				
	PCB "		7)["			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manife	st except as noted in Item 18a	//	a		
1	Printfed/Typed Name Sign	ature	1 2 4 2	Month Day Year		
₩ EPA	Form 8700-22 (Rev. 3-05) Previous editions are obsolete.	1-		18/11/219		
				LITY TO GENERATOR		
1000	die bestellte in der gestallte graffige in der Stadte betreit der der Stadte eine gestallte der der der der Stadte	e restra that they are as	PRINCIPLE PRINCIPLE SECURIOR	of the board of the last		

	has been land
PCB S	Line Item
es identified as	012781102 UK
his certificate is to verify the waste	and specified on Manifest #

., Line Item 1 has been landfilled on

in accordance with all local, state and federal regulations by: 4107

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official is true accurate and complete.

Authorized Signature:

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Ple	ease print or type. (Form designed for use on elite (12-pitch) type					Approved. OMB No. 2050-0039
\uparrow	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST 4 0 C F R P A F		mergency Response I OO 486-7745	Phone 4. Manif	est Tracking No 1278	1101 JJK
	5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 08103 Generator's Phonese 8 8 0 2 7 8 - 7 8 5	TH 290 , ₩€	E METROPO! 10 ALBANY AV	f different than mailing ac LITAN DISTRIC* /ENUE & ROUT RD CT 08117	^{ldress)} T / RESER E 44	
П	6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.				ID Number	20044207
П	7. Transporter 2 Company Name	t Police St. 100	TG .		D 0 1 I	3 6 1 1 8 0 2
П	Transporter 2 sympany Hamb			1	ID [Multiper	*
П	Designated Facility Name and Site Address			U.S. EPA	ID Number	3.
	WAYNE DISPOSALINC SITE # 2 LAND 48350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111	FILL				*
П	Facility's Phone: 800 592 - 5489			MI	0048	3090633
	9a. HM 9b. U.S. DOT Description (Including Proper Shipping Name, Family and Packing Group (if any))	łazard Class, ID Number,	10. Containe No.	Type 11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
8	1-RQ UN3432, WASTE POLYCHLORINI	ATED BIPHENYLS,				CRO1 PCBM
GENERATOR	SOLID, 9, PGII.		001	CM 9,045	K	
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	14. Special Handling Instructions and Additional Information)ERG # 171 PROFILE # 4	3140 00	E CAULKING (ven I	
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	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby decla marked and labeled/placarded, and are in all respects in proper of Exporter, I certify that the contents of this consignment conform to I certify that the waste minimization statement identified in 40 CF	condition for transport according to applicable is to the terms of the attached EPA Acknowledgm	nternational and nation ent of Consent.	nal governmental regulation	ons. If export shi	
	Generator's/Offeror's Printed/Typed Name	Signature	STO	α		Month Day Year
*			2 11	-0		105 116 114
ITI		Export from U.S.	Port of entry Date leaving			
出	17. Transporter Acknowledgment of Receipt of Materials	14				
TRANSPORTER	Transporter 1 Printed Typed Name Kevin Kicly	Signature	/	16.14		Month Day Year
INS	Transporter 2 Printed/Typed Name	Signature	1	1500		Month Day Year
TR/	cosept J. Kabents	1-2	1 1/1	Mar.		161814
1	18. Discrepancy		_/ _	-		7
	18a. Discrepancy Indication Space Quantity A to GOO OPPELVAL # FRE	S DANKEBORK WI	Residue 091	IN XH	Rejection	Full Rejection
<u>}</u>	18b. Alternate Facility (or Generator)	# KS 10 # P P 1 1 5	Widniest Reference N	U.S. EPA	D Number	DG.
FACI	Facility's Phone:	4		Ï		
GNATED FACILITY	18c. Signature of Alternate Facility (or Generator)					Month Day Year
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3	19. Hazardous Waste Report Management Method Codes (f.e., codes	ioi nazardous waste treatment, disposal, and i	ecycling systems)	4.		
	2.4			["		
	20. Designated Facility Owner or Operator: Certification of receipt of he			18a		-mt
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This certificate is to verify the wastes identified as

has been landfilled on

Line Item J1/10118/210 and specified on Manifest #

in accordance with all local, state and federal regulations by: 702

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Ple	ase print or ty	/pe. (Form design	ned for use on eli	te (12-pitch) typewri	ter.)						For	m Approved.	OMB No.	2050-0039
1		HAZARDOUS MANIFEST			000	2. Page 1 of		ency Respons 488-7745		4. Manifest	Tracking N	1090) .1.	ĴΚ
	5. Generator THE M 555 M HART Generator's I	S Name and Mailing METROPOLI AIN STREE FORD CT 1 Phone: Q A	g Address TAN DISTRI T 06103	00032 CT 8-7850			Generator THE N 2900 A	's Site Address	(If different the Court of the	ian mailing addres DISTRICT / & ROUTE 4	RESEF			
	1	r 1 Company Name RONMENT	9							U.S. EPAID N		881	180	2
	7. Transporte	r 2 Company Name	3-11-11-11-11-11-11-11-11-11-11-11-11-11	and the second second second second	energy (market and 1971)	WIT BUT ON	-	articl Africance	tot still a resident	U.S. EPAID N	lumber	W 14-1-1 4-11		
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П	Facility's Pho	ne: ንበሜ ንሜ	8_8754							CTD	0 2	181	3 8 8	9
	9a. 9b. U HM and I	J.S. DOT Descriptio Packing Group (if ar	n (including Proper ny))	Shipping Name, Hazar	d Class, ID Number,		-	10. Contai	iners Type	11. Total Quantity	12. Unit Wt./Vol.		aste Code:	
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	3.	29		0	,-2									
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	marked Exporter I certify	and labeled/placard , I certify that the co that the waste minin	led, and are in all re ontents of this consi nization statement i	N: I hereby declare the spects in proper condi gnment conform to the dentifled in 40 CFR 26:	ion for transport acco	ording to applic I EPA Acknowle	able internedgment o	ational and nati f Consent.	ional governm	ental regulations.	E pping name	SI JOB # SI PO # e, and are class ipment and I ar	SQ4	ged.
1	1	Offeror's Printed/Typ	ed Name ブ <i>R</i> ィー	00 81	3.	Sign	ature	190	62	-6 1		Month 5	Day 13	Year 14
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ER		r Acknowledgment		als						71				
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	18a. Discrepa	ncy Indication Spac	ce 🔲 Quant	ity	Туре		Man	Residue	Number	Partial Reje	ction		Full Reje	ction
∐ II	18b. Alternate	Facility (or General	tor)				Well	lest Reference	rivumoer.	U.S. EPA ID N	umber		æ	
FAC	Facility's Phor	no.		5 m 2						Ī				
DESIGNATED FACILITY		of Alternate Facility	y (or Generator)		¥ , .			× ×		- *	× 2	Monti	n Day	Year
Sig	19. Hazardous	s Waste Report Mar	nagement Method C	odes (i.e., codes for ha	azardous waste treati	ment, disposal,	and recyc	ing systems)						-
- DE	1.	1135		2.		3.0	1,500	- Academia		4				
Ш	20. Designate	d Facility Owner or	Operator: Certificati	on of receipt of hazard	ous materials covere	d by the manife	st except.	s noted in Item	n 18a 🌙					
EPA	Printed/Typed		INIa (1ersa			aturé /	am	ia (s	Lei	D 540	Month Month	1/3	Year 14
		7						11	L	ESIGNATE	D FAC	SCHII IV	CENE	MICH

Ple	ase	print or type. (Form desig	ned for use on elite (12-pitch) typewrite	er.)	Š						m Approved.	OMB No.	2050-0039
1		NIFORM HAZARDOUS WASTE MANIFEST	CTP000032	098	2. Page 1 of	1 800	gency Response 3 486-7745			278	1090) J.	JK
	Ge	Generator's Name and Maillr THE METROPOL 555 MAIN STREE HARTFORD CT nerator's Phone: 9 8	TAN DISTRICT T 06103 0 278 7850			THE:	METROPO	LITAN D		RESEF 14	RV0!R#(3	
			AL SERVICES, INC.						U.S. EPAID N		8 8 1	180	2
	7.	Transporter 2 Company Nam	8	in a management (%)	mys (fee second			A 2 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	U.S. EPA ID N	umber	10 (mily m. 4 mily m	9.7440.3311	· Martin Killer
	i	136 GRACEY AVE	ent & Recycling Northeast, L ENUE 451	rc			81		U.S. EPA ID N				П
П	Fa 9a	cility's Phone: วกว วว	요_유7 <u>요</u> on (including Proper Shipping Name, Hazard	Class ID Number			10, Contair	IALS		0 2 12. Unit	181	<u> 88</u>	ลี
	H	M and Packing Group (if a	ny))				No.	Туре	11. Total Quantity	Wt./Vol.	13. W	/aste Code:	3
GENERATOR		"NON-RCRA, N IMPACTED LIC	ION-DOT REGULATED PE QUID.	TROLEUM			001	77	Z58B	G	CROZ		
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	15.	marked and labeled/placare Exporter, I certify that the c I certify that the waste mini	R'S CERTIFICATION: I hereby declare that ded, and are in all respects in proper conditiontents of this consignment conform to the training attempt and the consignment of the consistency of the consignment of the consignment of the consignment of the consignment of the consistency of the consistenc	on for transport acco	consignment of cording to applice the EPA Acknowle quantity general	are fully an able inter ledgment erator) or	nd accurately des national and natio of Consent.	cribed above	ental regulations.	pping name		ified, packa n the Prima	ged, ary
	Ge	nerator's/Offeror's Printed/Typ	oed Name TRendell		Sign	nature	19	12			Monti	Day	
INT	1	International Shipments	Import to U.S.		Export from U	I.S.	Port of ent				- 7	1.2	
	_	Transporter Acknowledgment	of Receipt of Materials				24010471					(3)	
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¥.	-	Discrepancy											10.75
	⊢	n. Discrepancy Indication Spa	ce Quantity	Туре			Residue		Partial Reje	ction		Full Reje	ction
FACILITY -	18b	Alternate Facility (or Genera	ator)	g ta			nifest Reference	Number:	U.S. EPA ID No	ımber	.74	811.	
DESIGNATED FA		ility's Phone: . Signature of Alternate Facili	ty (or Generator)	.20					1	20.	Mont	h Day	Year
SIGN	19.	Hazardous Waste Report Ma	nagement Method Codes (i.e., codes for ha	zardous waste treat	ment, disposal	, and recy	cling systems)				-		
- DE	1.	H135	2.		3.				4.				
		Designated Facility Owner or need/Typed Name	Operator: Certification of receipt of hazardo	us materials covere	N.A. Charles	est excep	t as noted in Item	18a /	\		Monti	h Day	Year
E PA	For	m 8700-22 (Rev. 3-05) P	revious editions are obsolete.	1	(J(*)	gue		ESIGNATE	D FAC	- (DS	GENE	RATOR

Ple	ease	print or type. (Form desig	ned for use on	elite (12-pitch) ty	pewriter.)						For	m Approved. C	OMB No. 2	2050-0039
1	L	INIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID I	70550375510	32098	2. Page 1 of	2000-011-00-00-0	ncy Response 186-7745		4. Manifest	Tracking N	1090	JJ	IK
 	G	Generator's Name and Maillin THE METROPOL 555 MAIN STREE HARTFORD CT enerator's Phone: 9 8	ig Address ITAN DISTI T 06183	RICT	รกั ว	İ	THE M 2900 A	ETROP(NENUE	han mailing addres DISTRICT/ & ROUTE 96117	RESER	₹VOIR # 6		
П	6.	Transporter 1 Company Nam ENVIRONMENT	•				C I PS			U.S. EPA ID N		8 9 7 7	1 3 0	2
П	7.	Transporter 2 Company Nam	е				- 100			U.S. EPAID N	lumber			
		Designated Facility Name an TRADESE The star 138 GRACEY AVE MERIDEN OF 03 collity's Phone: 2413 255	ent & Recy ENUE 451	oling Morthe	est, LLC				5	U.S. EPA ID N		7814		4
11	9a HI	a. 9b. U.S. DOT Description	n (including Prope	er Shipping Name,	Hazard Class, ID Number,			10. Contair	ners Type	11. Total Quantity	12. Unit Wt./Vol.		aste Codes	S.
GENERATOR -		1. NON-RORA, N IMPACTED LIC	ION-OCT F JUIO	REGULATED	O PETROLEUM			0 3	1ypo	2588				
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	15.	GENERATOR'S/OFFEROR marked and labeled/placard Exporter, I certify that the or I certify that the waste mininterator's/Offeror's Printed/Typ	ed, and are ontents of the nization stated Name	This That That Basin	the ruxus cap	inse tured	From	tely des nd natio t, a small	nal governm	by the proper ship ental regulations. I nerator) is true.	Doing name	SI JOB # 3 SI PO # and are classifi pment and I am	ed packag	ed
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	_	Discrepancy Discrepancy Indication Space	e Quar	ntity	Туре			esidue		Partial Reject	etion		Full Rejecti	on
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IGNATED FACILITY	18c.	ility's Phone: Signature of Alternate Facility		ě								Month	Day	Year
۲	19. l	Hazardous Waste Report Man	agement Method	Codes (i.e., codes	for hazardous waste treatr	ment, disposal, a	and recycling	systems)		4.				
	20. [Designated Facility Owner or	Operator: Certifica	tion of receipt of he	azardous materiale covere	d by the manifes	t except on	noted in Item :	190					
1	Print	led/Typed Name	,	o. roompt of file		Signal		ioled III (IEII)	i Ja			Month	Day I	Year

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1	UNI	FORM HAZARDOUS			2. Page	1	rgency Respons		4. Manifest	-		^ 1	ш
П		ASTE MANIFEST		80699999	1		1488-7748				296	<u>U</u> J.	JK
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П	7. Tr	ansporter 2 Company Nam	18						U.S. EPA ID N	lumber			
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П		esignated Facility Name an							U.S. EPA ID N	lumber			
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П		19360 NORTH 194 BELLEVILLE MI		Tarte A. Com									
Н		ity's Phone: SEO SE							MID	0 4	809	083	3
П	9a.			Shipping Name, Hazard Class, ID Numl	ber,		10. Conta	ainers	11. Total	12. Unit			
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	15.	marked and labeled/placar Exporter, I certify that the o	R'S CERTIFICATIO ded, and are in all re contents of this consi	N: I hereby declare that the contents of espects in proper condition for transport ignment conform to the terms of the atta dentified in 40 CFR 262.27(a) (if I am a	according to a sched EPA Ack	applicable inte nowledgment	rnational and na of Consent.	itional governn	nental regulations.	pping nami		sified, packa	aged,
Ш		rator's/Offeror's Printed/Tv	ped Name		large quartity	Signature	(b) (iii aii a sii	ian quantity go	nordiory to dido.		Mon	th Day	Year
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SAN S	Irans	porter 2 Printed/Typed Nai	me	1.4		Signature					Mon	th Day	Year
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	18a. [Discrepancy Indication Spa	ice Quan	tity Type		L	Residue		Partial Reje	ection	L	Full Reje	ection
	18b. A	Alternate Facility (or Gener	ator)			M:	anifest Referenc	e Number:	U.S. EPA ID N	umher			
15		manual Camily (or Carret	415.7						0101 217110 11	arribo,			
12	Facilit	ty's Phone:							Ĩ				- 1
	_	Signature of Alternate Facil	ity (or Generator)								Mor	ith Day	Year
IGNATED FACILITY												,	1
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r.				_									
	20. De	esignated Facility Owner o	r Operator: Certificat	L	vered by the n	nanifest excep	ot as noted in Ite	m 18a					
	Printe	d/Typed Name				Signature					Mon	th Day	Year
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JOB# <u>26</u>	4/1	6/19				nical Sp	vices, Inc. ill Contractor	P.O. # T&M	2	E	. R. 🔲
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1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number)	2. Page 1 of 3. Er	nergency Hespons 20 45층-774		4. Waste T	-	mber 35052-14	
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	5. Generator's Name and Maillr	MAR OBTENI					t than mailing addin DISTRICTY & ROUTE		24 200	- 4
ıſ	HARIFORD OT				ST HARTE			· fing		1
П	Generator's Phone: 설립	279-7960	•31			-2/4				
П	6. Transporter 1 Company Nam						U.S. EPA ID			
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П	198 GRACEVAVE MERICEN UT 08									- 1
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П	9. Waste Shipping Name				10. Cont	tainers	11. Total	12. Unit		1
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l	14. GENERATOR'S/OFFEROR	'S CERTIFICATION: I hereby declare the	at the contents of this	consignment are fully	and accurately de	scribed abov	e by the proper shi	pping name	and are classified, packaged,	
	marked and labeled/placarde Generator's/Offeror's Printed/Ty	ed, and are in all respects in proper cond	lition for transport acci	Λ					Month Day Y	ear
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1,	15. International Shipments		F							
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	16. Transporter Acknowledgmer	nt of Receipt of Materials		1 14.	د، ر	.0 1		9	Y	19
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_	17. Discrepancy			BAS	sin #	2	at			-
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Σ	17b. Alternate Facility (or Gener	rator)				\mathcal{L}^{\bullet}				
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D F	Facility's Phone:	W. /- 0							M-15 D-11 V	_
ATE	17c. Signature of Alternate Facil	illy (or Generator)		9					Month Day Y	ear
SIGNATED FACILITY					NEW MENTAL			re all operation		
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		r Operator: Certification of receipt of mat	erials covered by the n	nanifest except as no	ted in Item 17a		THE STATE OF THE S	THE PERSON NAMED IN	THE RESERVE TO SERVER	9
	Printed/Typed Name			Signature					Month Day Y	ear

	T	T 4 Canamias ID Number	Q Po	1 of 2 Emo	Deapener	- Dhono	I 4 Wests To	- aldae Mu			
1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number C T SP G G B G G		1 180	rgency Response 0 486-774	(F)		वस्त्राच्या त	3/105	2 = 1	4
LI,	5. Generator's Name and Mailin	ng Address	70	Genera 7145	METROPC	s (if different 보고 TAT) I 기독대	than mailing address ISTRICT & ROUTE	ess) RESER Ma	の世界があ		
	HAPTEDED OT	05103	×		THARTEC			Y 7			
	Generator's Phone: 응충요 6. Transporter 1 Company Nam						U.S. EPA ID I	Mumhar			
		TAL SERVICES, INC.							8891	8 0	9
	7. Transporter 2 Company Nam						U.S. EPA ID I		tu . ,	Sac Sac	κ.
Ш			2. [6]				1				
	8. Designated Facility Name and THADEBE Transmitted STATES GRACES AVE MERIDEN CT 00	tent & Pledycling ") octoer Shirts					U.S. EPA ID I				
	Facility's Phone: 239 239	3 -675:			15.0-1				1816	8 3	Q
	9. Waste Shipping Name	e and Description			10. Conta	Type	11. Total Quantity	12. Unit Wt./Vol.			
GENERATOR -	¹ NON-RCRA, N IMPACTED US	ION-DOT REGULATED DUID:	PETROLEUM		201		7,975	æ			
- GENI	2.	n									
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	13. Special Handling Instructions				\	1117	C 50			Operation of the second	ention R
	14. GENERATOR'S/OFFEROR marked and labeled/placarde	278 LH WATER WITS R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper of	e that the contents of this considr	nment are fully a to applicable inte	nd accurately des	cribed above	e by the proper shi	The property of the party of th		ed, packag	ed,
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TRANSPORTER	Transporter 1 Printed/Typed Nar	ame /16		Signature	120	12	4	(()	Month	Day //	Year / · /
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A	17. Discrepancy										
	17a. Discrepancy Indication Spa	ace Quantity	Туре	Mar	Residue	lumber:	Partial Reje	ection		Fuil Rejecti	on
ACILITY.	17b. Alternate Facility (or General Facility's Phone:	rator)					U.S. EPA ID N	iumber	7.8	la la	
SIGNATED FACILITY	17c. Signature of Alternate Facili	lity (or Generator)		I					Month	Day	Year
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		or Operator: Certification of receipt of r	materials covered by the manifes	at except as note	d in item 17a		A PROCESSION CONTRACTOR		A STATE OF THE STA		
1	Printed/Typed Name			Signature					Month	Day 1	Year

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NA NA	ME	TITLE	ST OT	DT	FLEET #	DTY	TYPE PICK-UP TRUCK	7 -	ET#	# OF HRS
		SUPERVISOR					EM RESPONSE VAN			
111	1/	FORFIANI					VACUUM ST. TRUCK		3.27	
Milu	Hangy	FOREMAN EQ OPER /		-	27		SUPERVAC / MASTER VAC	171		
15:11	1516	DRIVER	34		121		VACUUM TRAILER ROLLOFF TRUCK/TRAILER			
		EQ OPER /	1				RACK TRUCK			
	7.5	DRIVER EQ OPER /		-			BOX TRUCK			7
		DRIVER					6 WHEEL DUMP TRUCK			- 1
		ENV. FIELD TECHNICIAN			V		10 WHEEL DUMP TRUCK TREAXLE DUMP TRUCK			
	100	ENV. FIELD					TRAILER DUMP / TRACTOR	74		
		TECHNICIAN ENV. FIELD					EXCAVATOR()			
3V E	ode 1	TECHNICIAN				-	BOBCAT/ATTCH () BACKHOE/ATTCH()			
			A.				LOADER	-		7
12000			X				PRESSURE WASHER TRAILER			
				-	+		CONFINED SPACE TRAILER			
			5.1				POWER WORK BOAT	15		- 12.
ISPOSAL:							TAG-TRAILER COMPRESSOR WIJACKHAMMER			
	FACI	LITY. O	TY M.	ANIFEST	#		GENERATOR()	18	3.	
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LIQUID (DRUM	S)						METER (
LIQUID (BULK)					Pac T					
ESTIMATED: SOLIDS II BULK LOAO (IN GALS.)				100		MATE	RIALS:	4 3	7 1	
SOLID (BULK))	r el i	. "	ату	DESCRIPTION	ОТУ	DESCR	
	- 1	1 6	Vi II				SPEEDL DRI 1.7-H DRUM	1	OVERPACK STE	
							17-E DRUM			N POLY DRUM
OLL-OFF CAR	IS INVENTOR	Y: (Check Box i	f Onsite Only)	talina V			DRUM LINERS		EPA LEVEL	P.P.
CAN NUMBER	CAN NUMBER	CAN NUMBER		CAN	NUMBER	1.1	SORBENT PADS, BALE 5' SORBENT BOOM, BALE	1	ROLLOFF LINER SIMPLE GREEN	
		7					8' SORBENT BOOM, BALE		CAMERA	DEUNEAGEN
							HARDBOOM SECTION		FILL	
-		-	-				POLY (ROLL) SIZE: PVC GLOVES	+	HAYBALES SEED	
	7 3		1		.00		" SUPERVAC HOSE		OLLU	-
NALYSIS:				-			DUCT TAPE			
QT;Y	ТҮРЕ		LAB	F	20#	SUBC	ONTRACTORS / VENDORS:	2 5 3		
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		- 124	0 1 1			Sustail	The state of the s	Company Na	-	
		-11	FUH	DISPOSA	AL J	n	By: JXV Y /	I manifest in	11001	

Tista

Ple	ease print or type. (Form design	gned for use on elite (12-pitch	typewriter.) 791					Fon	m Approved	. OMB No.	. 2050-003
1	UNIFORM HAZARDOUS WASTE MANIFEST	CTPOOO		2. Page 1 of	3. Emergency Respor	5	01	1 Tracking N	lumber	1 J	
	5. Generator's Name and Maili THE METROPOL 555 MAIN STREE HARTFORD CT Generator's Phone: 8 A. 6. Transporter 1 Company Nan	JTAN DISTRICT ET 08103 0 278-78	850		Generator's Site Addre THE METROF 2900 ALBANY WEST HARTF	AVENUE	DISTRICT & ROUTE 06117	RESER 44	RVOIR #	8	
H		TAL SERVICES, IN		N 41 5				0 0 1	881	18() 2
	1=9 E	NV:	×		18		U.S. EPAID	O O	1809	1063	3
		ALINC SITE # 2 LAP N SERVICE DRIVE 48111	NDFILL "				U.S. ÉPAID		809	0 8 3	3 3
	HM and Packing Group (if a	117	A STATE OF THE PARTY OF THE PAR	9 5 22 5	10. Cont	ainers Type,	11. Total Quantity	12. Unit Wt./Vol.		Waste Code	
ATOR	X 1-RQ UN3432, V SOLID, 9, PGI	ASTE POLYCHLORI		0.000		Chara -	7 1		CR01	PC88	A COLUMN
GENERATOR	2.	F12	107000	7	002	DM	00181	К.			
Ĭ			4		- 1						
	3.		**************************************	, 1							
	4			(a) 10 10	M(6) 1						
1	14. Special Handling Instruction	e and Additional Information	1)ERG # 171 PF							Javo T	
	15. GENERATOR'S/OFFEROI marked and labeled/placan Exporter, I certify that the c	R'S CERTIFICATION: hereby de ded, and are in all respects in propontents of this consignment conformization statement identified in 40	clare that the contents of this er condition for transport acc	is consignment ar cording to applica ed EPA Acknowle	e fully and accurately de ble international and na	escribed above tional governme	by the proper shental regulations.	ipping pame	SI PO#	5 7 ssified, packa	639
1	Generator's/Offeror's Printed/Typ	oed Name	(-) (Signa	ture	174		7	Mor	th Day	Year
INT'L	16. International Shipments Transporter signature (for export	Import to U.S.		Export from U.S	S. Port of e		- 4- a- m	- 15 N	- 1		140
RTER	17. Transporter Acknowledgment Transporter 1 Printed/Typed Natr		7 - 1 - 1	Signa		61	0		Mon	th Day	Year
TRANSPORTER	Transporter 2/Printed/Typed Nan	am York	15	Signa	ture T	4	1.		Z ngM	15	/ Year
1	18. Discrepancy	Laurille	#	I	ju -	pa	ea		12	17	14
	18a. Discrepancy Indication Space	generator EPA I	Type to per som	meyer	Residue Nay W	Environ	Partial Reje	ection	ius [Full Rejer	7555 AT
GNATED FACILITY	18b. Alternate Facility (or General	itor)			Manifest Reference		U.S. EPA ID N	3	114		ė,
GNATEL	18c. Signature of Alternate Facilit								Mor	nth Day	Year
7	19. Hazardous Waste Report Mar 1.	nagement Method Codes (i.e., cod	es for hazardous waste treat	tment, disposal, a	and recycling systems)		4.				~ 11 6
	20. Designated Facility Owner or Printed/Typed Name	Operator: Certification of receipt or	f hazardous materials covere	ed by the manifes Signa		n 18a			Mon	th Day	Year
+		Make	Weely	1	14	why	_		17	-117	17

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DISPOSAL	OŁ	IEICATE	CEKL

has been landfilled on , 2014 in accordance with all local, state and federal regulations by: , Line Item 011712811116 This certificate is to verify the wastes identified as and specified on Manifest # Feb. 14

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)

and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As r civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. e identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official g supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information accurate and complete.

	7
)
5	2,

Authorized Signature:



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Ple		printer type. (Form designed for use on elite (12-pitch) typewriter.)					For	n Approved.	OMB No	. 2050-003	
\int	UNI	WASTE MANIFEST 1. Generator ID Number 40 (FR PARTTU! 2. Page WASTE MANIFEST CTP 0 0 0 3 2 0 8 6	1 180	ergency Response 10 486-7745		4. Manifest 0 1	Tracking N	279	8 J	JK	
	5 Gene	Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 08103 nerator's Phone: 8 8 0 2 7 8 - 7 8 5 0	than mailing address) DISTRICT / RESERVOIR # 8 E & ROUTE 44 F 06117								
H	E	ransporter 1 Company Name ENVIRONMENTAL SERVICES, INC.					0 1	8 6 1	180) 2	
		ransporter 2 Company Name EO Env Designated Facility Name and Site Address					043	9063	33		
	4 8	WAYNE DISPOSALINC: - SITE # 2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111		U.S. EPA ID Number							
Ш	Facili 9a.	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		10, Contair	ners	MID		808	0 6 3	3	
	HM	and Packing Group (if.any))	- 4 	No.	Туре	11. Total Quantity	12. Unit Wt./Vol.	*13. V	Naste Code	is	
GENERATOR	Х	SOLID, 0, PGII.	I	015	DM	1361	R)K	CR01	PCB6		
- GEN	X	2 PRQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII.	DI	006	DM	272	0 K	CR01	PCB8		
		3.									
	-	4.									
	15. C	Special Handling Instructions and Additional Information 123 / 20 / DRUM # 1052-10 to 1052-24 2)ERG # 171 ION-FRIABLE ASBESTOS DRUM # 1052-30 to 1052-30 COOK 10	PROFIL ONFIRMA ament are fully a papulicable inter cknowledgment	E # 458798 ATION # and accurately desernational and national and n	cribed above	by the proper ship	ning name	pment and I a	5 7 5 sifled, packa m the Prima	aged, ary	
↓		nternational Shipments Import to U.S. Export 1	from U.S.	Port of onto	Y			1/	123	114	
RINTL		sporter signature (for exports only): ransporter Acknowledgment of Receipt of Materials	= 7 - geografi	Port of entr	The second secon	T Notes	14:				
TRANSPORTER	Transp	Sporter 1 Printed/Typed Name Liliam York	Signature	Hy	10	*	6	Monti	h Day	Year	
→ TRAN		sporter 2 Frigited/Typed Name Couch Couch	Signature	til	ha	lle		Monti 2	Day	Year 14	
	ο×	Discrepancy Indication Space Quantity Type X TO LOT VPLT PET TIME YOUNG HOUSE WILL EMY		Residue		Partial Reject		4	Full Reje	ction	
	Facility	Alternate Facility (or Generator) by's Phone: Signature of Alternate Facility (or Generator)				U.S. EPA ID Nu	mber				
SIGNATI	06 B	ezardous Waste Report Management Method Codes (Re., codes for hazardous waste treatment, dis	sposal, and rec	ycling systems)			भू दे:ते" वि	Mont	th Day	Year	
7	1.	PCB 2 PCB	3.			4.		1			
		esignated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the d/Typed Name	manifest excep	ot as noted in Item	18a			Monti	n Day	Voor	
1	Annels La	Mak Wals		Mu	~			17	h Day	I f	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as

JIN 85121110

and specified on Manifest #

Line Item ____ has been landfilled on

2001 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official is true accurate and complete.

Authorized Signature:

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Pie	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)						n Approved. OMB No. 2050-003				
1	WASTE MANIFEST 1. Generator ID Number CT POOO32096		800 426	· 7746	- who	171	.2669 JJK				
ы	5. Generator's Name and Mailing Address 5.55 MAIN STEET DISTRICTS COMME	Genera	itor's Site Address				Λ				
П	1 14 14 14 14 14 14 14 14 14 14 14 14 14	5763	2900 /	lighn	Y KUEN	34					
11	Generator's Phone: (860) 278-7850 We, I HARTGORD CO 06117 6. Transporter 1 Company Name ENUTRIANMENTAL SERVICES, TOC. CT 0017811802										
П											
	7. Transporter 2 Company Name U.S. EPA ID Number										
П	8. Designated Facility Name and Site Address.										
Н	8. Designated Facility Name and Site Address LANDSTON GROVE, RESOURCE RECOVERY 1935 - January										
П	& Benevine, by Will	CIMCIONYS			0 14 0	00	0 81 6 62 9				
П	Facility's Phone: 9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number,		I 40 Comtain				2090633				
П	HM and Packing Group (if any))		10. Contain No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
8	X SULID, 9, PETTINENTUATED BY	PHIRMARY,	634		11		CR. PCB6				
RAT	V Sacio, d' Lett		009	DM	408	k					
GENERATOR	2.										
ĬĬ	K 8 9										
	3.										
Ш											
П	4,						-				
	erran Americana isa			n n							
Ц	14. Special Handling Instructions and Additional Information CH 72 9 52 9	PcB.	7500 0	pan 1	CLT T	0 ++	2013-1052				
П		H 0283					57022				
П	0A - 1- 12013 Drum # 1052-1	thru 10	52-9		N 2000 1	- 74					
	 GENERATOR'S/OFFEROR'S CERTIFICATION: hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport according. 	consignment are fully	and accurately des	scribed above	by the proper shi	pping name	, and are classified, packaged,				
	Exporter, I certify that the contents of this consignment conform to the terms of the attached certify that the waste minimization statement Identified in 40 CFR 262.27(a) (if I am a large	d EPA Acknowledgmen	t of Consent.		-	ii export siii	priterit and i am the Filmary				
	Generator's/Offeror's Printed/Typed Name	Signature	(b) (III aili a silla	duality ger	lerator) is true.	,	Month Day Year				
+	Deniel J Randall 16. International Shipments		my yo	(ere)		11 26 13				
INT	Import to U.S. Transporter signature (for exports only):	Export from U.S.	Port of ent Date leavir								
TER	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	AV									
TRANSPORTER	William Josh	Signature	ATT	1/0			Month Day Year				
SANS	Transporter 2 Printed/Typed Name	Signature	10			-	Month Day Year ノン フップン				
Ē	18. Discrepancy	_/	/	THE RESIDENCE OF THE			1/2 30 /2				
	18a. Discrepancy Indication Space Quantity Type	Thursday and h	Residue		Partial Reje	etion	Full Rejection				
	type	-			T dittairteje	Guori	Full Rejection				
	18b. Alternate Facility (or Generator)	M	anifest Reference	Number:	U.S. EPA ID N	umber					
ACIL ACIL					9						
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)		0				Month Day Year				
GIGNATED FACILITY	· · · · · · · · · · · · · · · · · · ·				===		.1				
=	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treati	ment, disposal, and rec	ycling systems)		4.						
T.	H141		- N				2				
	20. Designated Facility Owner or Operator; Certification of receipt of hazardous materials covere Printed/Typed Name	d by the manifest exce Signature			,		Month Day Year				
\downarrow	Nicole Erdy	J. J.	Nucan	6 6	rely		10/1031/4				

DAY M D W TH F S SU				(860) 528-9500 Mitchell Associates, Inc.				T&M E. R. CONTRACT HAZMAT			
DAY M	V W TH	FSS		4 C.C.##		89-1000				SURCH	IARGE
CONTACT PER	RSON _3 c/	In Keck	inter		90 Brookf	ald Stra	not II			13:00	
2HONE <u>36</u>	0-278	-7950		S	outh Winds			RRIVE BA	ACK AT SHO)P	AN
CLIENT	UDC				e.		T	OTAL HO	OURS		
		11 01	DAR				JOB LOCATION				
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LABOR:						EQUI	PMENT:)			
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		SUPERVISOR					PICK-UP TRUCK EM RESPONSE VAN				
		FOREMAN		-			VACUUM ST. TRUCK				
200	. / /	EQ OPER /		-			SUPERVAC / MASTER VAC				
13:11	York .	DRIVER			22		ROLLOFF TRUCK/TRAILER				
		EQ OPER / DRIVER				1	RACK TRUCK		22		
		EQ OPER / DRIVER					BOX TRUCK 6 WHEEL DUMP TRUCK	-		_	
		ENV. FIELD			++		10 WHEEL DUMP TRUCK				
		TECHNICIAN ENV. FIELD					TRI-AXLE DUMP TRUCK TRAILER DUMP / TRACTOR	,			3- X
		TECHNICIAN ENV. FIELD		-			EXCAVATOR(1		-	
7		TECHNICIAN					BOBCAT/ATTCH ()			
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El Company	m .						PRESSURE WASHER TRAIL	ER			
				1	-	-	CONFINED SPACE TRAILER POWER WORK BOAT			8	
Menocal	7/3			_			TAG-TRAILER				
DISPOSAL:	F100	LITY	TV	I A AUPTO	T.,		COMPRESSOR WIJACKHAMN	/IER			
SOLID (DRUMS			ודע א זרנוס ז	IANIFES			GENERATOR(LIGHT PLANT	-}			
LIQUID (DRUM:			1 0077	4 D.6-1	1 7 1X		METER ()	1 V		
LIQUID (BULK)											
ESTIMATED SOLIDS IN BULK LOAD IN GALS.)						MATE	RIALS:				
SOLID (BULK)	1,82					QTY	DESCRIPTION		QTY		RIPTION
		141					SPEEDI DRI 17-H DRUM			OVERPACK STI	
		Nation 10	100 700				17-E DRUM				IN POLY DRUM
ROLL-OFF CAN				-			DRUM LINERS SORBENT PADS, BALE			EPA LEVEL ROLLOFF LINER	P.P.
CAN NUMBER	CAN NUMBER	CAN NUMBE	CAN NUMBER	CAI	N NUMBER		5' SORBENT BOOM, BALE			SIMPLE GREEN	
				1			8' SORBENT BOOM, BALE HARDBOOM SE	CTION		CAMERA FILL	
							POLY (ROLL) SIZE:	J TION		HAYBALES	
-5.0000000000							PVC GLOVES " SUPERVAC HOSE		- 1	SEED	
ANALYSIS:							DUCT TAPE				
ОТУ	TYPE		LAB		PO#		ONTRACTORS / VENI	DORS:	î &		
				-		NA	ME OF COMPANY	DESC	RIPTION OF V	VORK	P0 #
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JOB DESCRIP	TION:					^	-			-	
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JOB COMPLETED) YE	s M	n 🔲 .ine	DONE E	XCEPT	Cuntar	or //\/				
- 22 SOUN ELITE	· 🗀 "	ام ا∳تجرا ار	·	DISPOS		Custom	ICI	12	(Company, Name)		
		-, /	rur	DIOI UC	DAL	B	u 15 - 11 01				

APPENDIX C

ANALYTICAL DATA REPORTS



Report Date: 02-Dec-13 15:24



☑ Final Report☐ Re-Issued Report☐ Revised Report

HANIBAL TECHNOLOGY

Laboratory Report

TRC 21 Griffin Road North Windsor, CT 06095

Attn: Erik Plimpton

Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT

Project #: 211304.0000.0000

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
SB80903-01	3/4-C-0"	Concrete	21-Nov-13 11:14	25-Nov-13 16:35
SB80903-02	3/4-C-3"	Concrete	21-Nov-13 11:12	25-Nov-13 16:35
SB80903-03	3/4-C-6"	Concrete	21-Nov-13 11:10	25-Nov-13 16:35
SB80903-04	3/4-C-9"	Concrete	21-Nov-13 11:08	25-Nov-13 16:35
SB80903-05	3/4-C-12"	Concrete	21-Nov-13 11:06	25-Nov-13 16:35
SB80903-06	0-C-0"	Concrete	21-Nov-13 11:45	25-Nov-13 16:35
SB80903-07	0-C-3"	Concrete	21-Nov-13 11:43	25-Nov-13 16:35
SB80903-08	0-C-6"	Concrete	21-Nov-13 11:40	25-Nov-13 16:35
SB80903-09	0-C-9"	Concrete	21-Nov-13 11:37	25-Nov-13 16:35
SB80903-10	0-C-12"	Concrete	21-Nov-13 11:35	25-Nov-13 16:35
SB80903-11	18-C-0"	Concrete	21-Nov-13 12:33	25-Nov-13 16:35
SB80903-12	18-C-3"	Concrete	21-Nov-13 12:30	25-Nov-13 16:35
SB80903-13	18-C-6"	Concrete	21-Nov-13 12:28	25-Nov-13 16:35
SB80903-14	18-C-9"	Concrete	21-Nov-13 12:26	25-Nov-13 16:35
SB80903-15	18-C-12"	Concrete	21-Nov-13 12:22	25-Nov-13 16:35
SB80903-16	16/17-C-0"	Concrete	21-Nov-13 13:47	25-Nov-13 16:35
SB80903-17	16/17-C-3"	Concrete	21-Nov-13 13:45	25-Nov-13 16:35
SB80903-18	16/17-C-6"	Concrete	21-Nov-13 13:43	25-Nov-13 16:35
SB80903-19	16/17-C-9"	Concrete	21-Nov-13 13:40	25-Nov-13 16:35
SB80903-20	16/17-C-12"	Concrete	21-Nov-13 13:38	25-Nov-13 16:35
SB80903-21	16-C-0"	Concrete	21-Nov-13 14:18	25-Nov-13 16:35
SB80903-22	16-C-3"	Concrete	21-Nov-13 14:15	25-Nov-13 16:35
SB80903-23	16-C-6"	Concrete	21-Nov-13 14:13	25-Nov-13 16:35
SB80903-24	16-C-9"	Concrete	21-Nov-13 14:10	25-Nov-13 16:35
SB80903-25	16-C-12"	Concrete	21-Nov-13 14:07	25-Nov-13 16:35
SB80903-26	5-C-0"	Concrete	22-Nov-13 08:45	25-Nov-13 16:35
SB80903-27	5-C-3"	Concrete	22-Nov-13 08:42	25-Nov-13 16:35
SB80903-28	5-C-6"	Concrete	22-Nov-13 08:39	25-Nov-13 16:35
SB80903-29	5-C-9"	Concrete	22-Nov-13 08:36	25-Nov-13 16:35
SB80903-30	5-C-12"	Concrete	22-Nov-13 08:34	25-Nov-13 16:35
SB80903-31	5-C-3"D	Concrete	22-Nov-13 09:00	25-Nov-13 16:35
SB80903-32	5-C-6"D	Concrete	22-Nov-13 09:10	25-Nov-13 16:35
SB80903-33	3/4-I-0"	Concrete	22-Nov-13 09:40	25-Nov-13 16:35
SB80903-34	3/4-I-3"	Concrete	22-Nov-13 09:37	25-Nov-13 16:35
SB80903-35	3/4-I-6"	Concrete	22-Nov-13 09:34	25-Nov-13 16:35
SB80903-36	9-J-0"	Concrete	22-Nov-13 10:10	25-Nov-13 16:35
SB80903-37	9-J-3"	Concrete	22-Nov-13 10:07	25-Nov-13 16:35

SB80903-38	9-J-6"	Concrete	22-Nov-13 10:03	25-Nov-13 16:35
SB80903-39	9-J-3"D	Concrete	22-Nov-13 10:29	25-Nov-13 16:35
SB80903-40	9-J-6"D	Concrete	22-Nov-13 10:25	25-Nov-13 16:35
SB80903-41	7/8-W/A-0"	Concrete	22-Nov-13 11:15	25-Nov-13 16:35
SB80903-42	7/8-W/A-3"	Concrete	22-Nov-13 11:11	25-Nov-13 16:35
SB80903-43	7/8-W/A-6"	Concrete	22-Nov-13 11:04	25-Nov-13 16:35
SB80903-44	3/4-C-3"D	Concrete	22-Nov-13 11:40	25-Nov-13 16:35
SB80903-45	3/4-C-6"D	Concrete	22-Nov-13 11:37	25-Nov-13 16:35
SB80903-46	0-C-3"D	Concrete	22-Nov-13 13:26	25-Nov-13 16:35
SB80903-47	0-C-6"D	Concrete	22-Nov-13 13:30	25-Nov-13 16:35
SB80903-48	0/1-C-0"	Concrete	22-Nov-13 14:17	25-Nov-13 16:35
SB80903-49	0/1-C-3"	Concrete	22-Nov-13 14:13	25-Nov-13 16:35
SB80903-50	0/1-C-6"	Concrete	22-Nov-13 14:10	25-Nov-13 16:35
SB80903-51	0/1-C-9"	Concrete	22-Nov-13 14:07	25-Nov-13 16:35
SB80903-52	0/1-C-12"	Concrete	22-Nov-13 14:04	25-Nov-13 16:35
SB80903-53	18-C-CK	Cork	22-Nov-13 11:00	25-Nov-13 16:35
SB80903-54	0/1-C-CK	Cork	22-Nov-13 14:20	25-Nov-13 16:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Nicole Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 67 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols Laboratory Analysis QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 2)-West Project Number: 211304.0000.0000

Hartford, CT Sampling Date(s):

Laboratory Sample ID(s):

11/21/2013 through 11/22/2013

SB80903-01 through SB80903-54

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓	Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓	Yes	No
1B	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?		Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	√	Yes	No
3	Were samples received at an appropriate temperature?	✓	Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?		Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?		Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	√	Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓	Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja Laboratory Director

Micole Leja

Date: 12/2/2013

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of \pm 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016 Aroclor-1016 [2C]

1328688-MSD1 Source: SB80903-44

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016 Aroclor-1016 [2C]

Samples:

SB80903-01 3/4-C-0"

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8082A

Samples:

SB80903-01

3/4-C-0"

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80903-11

18-C-0"

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80903-16

16/17-C-0"

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80903-53

18-C-CK

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80903-54

0/1-C-CK

Difference between the two GC columns is greater than 40%.

Aroclor-1254

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr)

Sample Acceptance Check Form

Client:	TRC - Windsor, CT			
Project:	MDC - Reservoir #6 (Basin 2)-West Hartford, CT / 211304.0000.0000			
Work Order:	SB80903			
Sample(s) received on:	11/25/2013			
Received by:	Vickie Knowles			
The following outlines	the condition of samples for the attached Chain of Custody upon receipt.			
		Yes	<u>No</u>	<u>N/A</u>
1. Were custody	seals present?		\checkmark	
2. Were custody	seals intact?			\checkmark
3. Were samples	received at a temperature of $\leq 6^{\circ}$ C?	✓		
4. Were samples	cooled on ice upon transfer to laboratory representative?		✓	
5. Were samples	refrigerated upon transfer to laboratory representative?	\checkmark		
6. Were sample of	containers received intact?	\checkmark		
•	properly labeled (labels affixed to sample containers and include sample ID, site or project number and the collection date)?	\checkmark		
8. Were samples	accompanied by a Chain of Custody document?	\checkmark		
include sample	Custody document include proper, full, and complete documentation, which shall EID, site location, and/or project number, date and time of collection, collector's name, appe, sample matrix and any special remarks concerning the sample?		\checkmark	
10. Did sample co	ntainer labels agree with Chain of Custody document?	\checkmark		
11. Were samples	received within method-specific holding times?	\checkmark		

Sample Id 3/4-C-0'' SB80903	dentification			Client P 211304.0			<u>Matrix</u> Concrete		ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	tted Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 3740	D	μg/kg dry	3740	2790	50	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 3740	D	μg/kg dry	3740	3370	50						Χ
11141-16-5	Aroclor-1232	< 3740	D	μg/kg dry	3740	2400	50						Χ
53469-21-9	Aroclor-1242	< 3740	D	μg/kg dry	3740	2250	50						Χ
12672-29-6	Aroclor-1248 [2C]	132,000	D	μg/kg dry	3740	1640	50				"		Χ
11097-69-1	Aroclor-1254 [2C]	200,000	D	μg/kg dry	3740	2190	50				"		Χ
11096-82-5	Aroclor-1260	22,000	D	μg/kg dry	3740	2320	50	п			"		Χ
37324-23-5	Aroclor-1262	< 3740	D	μg/kg dry	3740	3480	50	п			"		Χ
11100-14-4	Aroclor-1268	< 3740	D	μg/kg dry	3740	1540	50	п			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150) %		п		н	"		

30-150 %

30-150 %

SM2540 G Mod.

DT

26-Nov-13 26-Nov-13

1328753

10386-84-2

2051-24-3

2051-24-3

4,4-DB-Octafluorobiphenyl

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

0

0

0

87.8

S01

S01

S01

Sample Id 3/4-C-3'' SB80903	-02			<u>Client P</u> 211304.0			Matrix Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 11			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	ъС											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 70.8		μg/kg dry	70.8	52.9	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 70.8		μg/kg dry	70.8	63.8	1	н			"		Χ
11141-16-5	Aroclor-1232	< 70.8		μg/kg dry	70.8	45.4	1				"		Χ
53469-21-9	Aroclor-1242	< 70.8		μg/kg dry	70.8	42.6	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	6,690		μg/kg dry	70.8	31.1	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	9,030		μg/kg dry	70.8	41.4	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	948		μg/kg dry	70.8	35.4	1				"		Χ
37324-23-5	Aroclor-1262	< 70.8		μg/kg dry	70.8	65.9	1				"		Х
11100-14-4	Aroclor-1268	< 70.8		μg/kg dry	70.8	29.2	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		п		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	50 %		и		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	115			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	125			30-15	50 %		u	•	н	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

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% Solids

Sample Id 3/4-C-6'' SB80903-	-03			<u>Client P</u> 211304.00			<u>Matrix</u> Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	БС											
<u>Polychlorina</u>	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 65.7		μg/kg dry	65.7	49.1	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 65.7		μg/kg dry	65.7	59.2	1				"		Χ
11141-16-5	Aroclor-1232	< 65.7		μg/kg dry	65.7	42.2	1				"		Χ
53469-21-9	Aroclor-1242	< 65.7		μg/kg dry	65.7	39.5	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	4,910		μg/kg dry	65.7	28.8	1	II.		н	"		Χ
11097-69-1	Aroclor-1254 [2C]	6,470		μg/kg dry	65.7	38.5	1	II.		н	"		Χ
11096-82-5	Aroclor-1260	719		μg/kg dry	65.7	40.7	1				"		Χ
37324-23-5	Aroclor-1262	< 65.7		μg/kg dry	65.7	61.2	1				"		Χ
11100-14-4	Aroclor-1268	< 65.7		μg/kg dry	65.7	27.1	1	n			"		Х
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		п		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	50 %		II.		н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	125			30-15	50 %		п	н	п	"		
General C	hemistry Parameters												

26-Nov-13 26-Nov-13

DT

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% Solids

Sample Id 3/4-C-9'' SB80903				Client P 211304.0			Matrix Concrete		ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 72.6		μg/kg dry	72.6	54.2	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 72.6		μg/kg dry	72.6	65.4	1				"		Χ
11141-16-5	Aroclor-1232	< 72.6		μg/kg dry	72.6	46.6	1				"		Χ
53469-21-9	Aroclor-1242	< 72.6		μg/kg dry	72.6	43.7	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	1,990		μg/kg dry	72.6	31.9	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	3,200		μg/kg dry	72.6	42.5	1	н					Χ
11096-82-5	Aroclor-1260 [2C]	505		μg/kg dry	72.6	36.3	1						Χ
37324-23-5	Aroclor-1262	< 72.6		μg/kg dry	72.6	67.6	1						Χ
11100-14-4	Aroclor-1268	< 72.6		μg/kg dry	72.6	29.9	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	50 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	120			30-15	50 %		ı					
2051-24-3	Decachlorobiphenyl (Sr) [2C]	140			30-15	50 %		н			"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

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1328753

% Solids

Sample Id 3/4-C-12' SB80903				Client P 211304.0			Matrix Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 71.0		μg/kg dry	71.0	53.0	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 71.0		μg/kg dry	71.0	64.0	1			п	"		Χ
11141-16-5	Aroclor-1232	< 71.0		μg/kg dry	71.0	45.6	1				"		Χ
53469-21-9	Aroclor-1242	< 71.0		μg/kg dry	71.0	42.7	1			н	"		Χ
12672-29-6	Aroclor-1248 [2C]	1,690		μg/kg dry	71.0	31.2	1			н	"		Χ
11097-69-1	Aroclor-1254 [2C]	2,390		μg/kg dry	71.0	41.6	1	II.		п	"		Χ
11096-82-5	Aroclor-1260 [2C]	312		μg/kg dry	71.0	35.5	1				"		Χ
37324-23-5	Aroclor-1262	< 71.0		μg/kg dry	71.0	66.1	1				"		Χ
11100-14-4	Aroclor-1268	< 71.0		μg/kg dry	71.0	29.3	1	n			"		Х
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	120			30-15	50 %		II.		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	135			30-15	50 %		п	н		"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328753

% Solids

Sample Id 0-C-0'' SB80903-	-06			<u>Client P</u> 211304.0	-		<u>Matrix</u> Concrete	·	ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 69.5		μg/kg dry	69.5	51.9	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 69.5		μg/kg dry	69.5	62.6	1	н			"		Χ
11141-16-5	Aroclor-1232	< 69.5		μg/kg dry	69.5	44.6	1			н	"		Χ
53469-21-9	Aroclor-1242	< 69.5		μg/kg dry	69.5	41.8	1				"		Χ
12672-29-6	Aroclor-1248	< 69.5		μg/kg dry	69.5	36.1	1				"		Χ
11097-69-1	Aroclor-1254	3,980		μg/kg dry	69.5	57.9	1				"		Χ
11096-82-5	Aroclor-1260	< 69.5		μg/kg dry	69.5	43.1	1				"		Χ
37324-23-5	Aroclor-1262	< 69.5		μg/kg dry	69.5	64.7	1				"		Χ
11100-14-4	Aroclor-1268	< 69.5		μg/kg dry	69.5	28.7	1	и			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		и		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		и		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %				п	"		
General C	hemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328753

% Solids

Sample Io 0-C-3" SB80903	dentification -07			Client P 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Concrete		ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.1		μg/kg dry	68.1	50.9	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 68.1		μg/kg dry	68.1	61.3	1			п	"		Χ
11141-16-5	Aroclor-1232	< 68.1		μg/kg dry	68.1	43.7	1				"		Χ
53469-21-9	Aroclor-1242	< 68.1		μg/kg dry	68.1	40.9	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	398		μg/kg dry	68.1	29.9	1			u	"		Χ
11097-69-1	Aroclor-1254 [2C]	1,230		μg/kg dry	68.1	39.9	1	н			•		Χ
11096-82-5	Aroclor-1260	< 68.1		μg/kg dry	68.1	42.2	1			п	"		Χ
37324-23-5	Aroclor-1262	< 68.1		μg/kg dry	68.1	63.4	1			и	"		Χ
11100-14-4	Aroclor-1268	< 68.1		μg/kg dry	68.1	28.1	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	i0 %		II .		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-15	50 %		11		ı	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328753

% Solids

Sample Id 0-C-6'' SB80903	-08			Client P 211304.0			<u>Matrix</u> Concrete		ection Date -Nov-13 11	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 66.4		μg/kg dry	66.4	49.6	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 66.4		μg/kg dry	66.4	59.8	1	н		п	"		Χ
11141-16-5	Aroclor-1232	< 66.4		μg/kg dry	66.4	42.6	1				"		Χ
53469-21-9	Aroclor-1242	< 66.4		μg/kg dry	66.4	39.9	1			u	"		Χ
12672-29-6	Aroclor-1248	378		μg/kg dry	66.4	34.5	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	1,030		μg/kg dry	66.4	38.9	1				•		Χ
11096-82-5	Aroclor-1260	< 66.4		μg/kg dry	66.4	41.2	1			ıı	•		Χ
37324-23-5	Aroclor-1262	< 66.4		μg/kg dry	66.4	61.8	1			ıı	•		Χ
11100-14-4	Aroclor-1268	< 66.4		μg/kg dry	66.4	27.4	1	п		н	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		п		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	50 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %		н		ı	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328753

% Solids

Sample Id 0-C-9" SB80903	dentification			Client P 211304.0			Matrix Concrete		ection Date -Nov-13 11	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 58.5		μg/kg dry	58.5	43.7	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 58.5		μg/kg dry	58.5	52.7	1			u u	"		Χ
11141-16-5	Aroclor-1232	< 58.5		μg/kg dry	58.5	37.6	1			п	"		Χ
53469-21-9	Aroclor-1242	< 58.5		μg/kg dry	58.5	35.2	1	н			"		Χ
12672-29-6	Aroclor-1248 [2C]	155		μg/kg dry	58.5	25.7	1			и	"		Χ
11097-69-1	Aroclor-1254	451		μg/kg dry	58.5	48.8	1			и	"		Χ
11096-82-5	Aroclor-1260	< 58.5		μg/kg dry	58.5	36.3	1			и	"		Χ
37324-23-5	Aroclor-1262	< 58.5		μg/kg dry	58.5	54.5	1			и	"		Χ
11100-14-4	Aroclor-1268	< 58.5		μg/kg dry	58.5	24.1	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-15	0 %		и		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	0 %				ıı	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	0 %		н		ı	"		

26-Nov-13 26-Nov-13

DT

1328753

General Chemistry Parameters % Solids

Sample Ic 0-C-12'' SB80903-	lentification -10			Client P 211304.0			Matrix Concrete		ection Date -Nov-13 11			nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 69.2		μg/kg dry	69.2	51.7	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 69.2		μg/kg dry	69.2	62.3	1				"		Χ
11141-16-5	Aroclor-1232	< 69.2		μg/kg dry	69.2	44.4	1				"		Χ
53469-21-9	Aroclor-1242	< 69.2		μg/kg dry	69.2	41.6	1				"		Χ
12672-29-6	Aroclor-1248	367		μg/kg dry	69.2	36.0	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	806		μg/kg dry	69.2	40.5	1						Χ
11096-82-5	Aroclor-1260	< 69.2		μg/kg dry	69.2	42.9	1						Χ
37324-23-5	Aroclor-1262	< 69.2		μg/kg dry	69.2	64.4	1				"		Χ
11100-14-4	Aroclor-1268	< 69.2		μg/kg dry	69.2	28.5	1				"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %					"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %				ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-15	50 %		•			"		
General C	hemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328753

% Solids

Client Project # 211304.0000.0000

Matrix Concrete Collection Date/Time 21-Nov-13 12:33 Received 25-Nov-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cer
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 697	D	μg/kg dry	697	521	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 697	D	μg/kg dry	697	628	10	п		н	"		Χ
11141-16-5	Aroclor-1232	< 697	D	μg/kg dry	697	447	10	ı			"		Χ
53469-21-9	Aroclor-1242	< 697	D	μg/kg dry	697	419	10	ı			"		Χ
12672-29-6	Aroclor-1248	< 697	D	μg/kg dry	697	362	10	ı		п	"		Χ
11097-69-1	Aroclor-1254	< 697	D	μg/kg dry	697	581	10			п	"		Χ
11096-82-5	Aroclor-1260 [2C]	20,500	D	μg/kg dry	697	349	10				"		Χ
37324-23-5	Aroclor-1262	< 697	D	μg/kg dry	697	649	10				"		Χ
11100-14-4	Aroclor-1268	< 697	D	μg/kg dry	697	288	10	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		ı			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	0 %		и			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %				п			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	0 %		п			"		
General C	Chemistry Parameters												
	% Solids	89.9		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	

Sample Id 18-C-3" SB80903	dentification			<u>Client P</u> 211304.0			Matrix Concrete	·	ection Date -Nov-13 12			veived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 72.5		μg/kg dry	72.5	54.1	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 72.5		μg/kg dry	72.5	65.3	1				"		Χ
11141-16-5	Aroclor-1232	< 72.5		μg/kg dry	72.5	46.5	1				"		Χ
53469-21-9	Aroclor-1242	< 72.5		μg/kg dry	72.5	43.6	1				"		Х
12672-29-6	Aroclor-1248	< 72.5		μg/kg dry	72.5	37.7	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	141		μg/kg dry	72.5	42.4	1	п			"		Χ
11096-82-5	Aroclor-1260	145		μg/kg dry	72.5	44.9	1	п			"		Х
37324-23-5	Aroclor-1262	< 72.5		μg/kg dry	72.5	67.5	1	п			"		Х
11100-14-4	Aroclor-1268	< 72.5		μg/kg dry	72.5	29.9	1			п	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		п		и	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	50 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-15	50 %		u	•	н	"		
General C	[2C] Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328754

% Solids

Sample Id 18-C-6" SB80903	dentification -13		2	Client P 211304.00			Matrix Concrete		ection Date -Nov-13 12			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
<u>Polychlorina</u>	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 75.4		μg/kg dry	75.4	56.4	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 75.4		μg/kg dry	75.4	68.0	1				"		Χ
11141-16-5	Aroclor-1232	< 75.4		μg/kg dry	75.4	48.4	1				"		Χ
53469-21-9	Aroclor-1242	< 75.4		μg/kg dry	75.4	45.4	1				"		Χ
12672-29-6	Aroclor-1248	< 75.4		μg/kg dry	75.4	39.2	1	п			"		Χ
11097-69-1	Aroclor-1254 [2C]	< 75.4		μg/kg dry	75.4	44.2	1				"		Χ
11096-82-5	Aroclor-1260	< 75.4		μg/kg dry	75.4	46.8	1	п			"		Χ
37324-23-5	Aroclor-1262	< 75.4		μg/kg dry	75.4	70.3	1	п			"		Χ
11100-14-4	Aroclor-1268	< 75.4		μg/kg dry	75.4	31.1	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150	0 %			•		"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150	0 %		н			"		

26-Nov-13 26-Nov-13

DT

1328754

General Chemistry Parameters % Solids

Sample Io 18-C-9" SB80903-	lentification			Client P 211304.0			Matrix Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 12			veived Nov-13	
CAS No.	Analyte(s)	Result 1	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	lle Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.6		μg/kg dry	68.6	51.3	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 68.6		μg/kg dry	68.6	61.8	1	п			"		Χ
11141-16-5	Aroclor-1232	< 68.6		μg/kg dry	68.6	44.1	1				"		Χ
53469-21-9	Aroclor-1242	< 68.6		μg/kg dry	68.6	41.3	1				"		Χ
12672-29-6	Aroclor-1248	< 68.6		μg/kg dry	68.6	35.7	1				"		Х
11097-69-1	Aroclor-1254	124		μg/kg dry	68.6	57.2	1	п			"		Χ
11096-82-5	Aroclor-1260 [2C]	103		μg/kg dry	68.6	34.3	1	п			"		Χ
37324-23-5	Aroclor-1262	< 68.6		μg/kg dry	68.6	63.9	1	п			"		Χ
11100-14-4	Aroclor-1268	< 68.6		μg/kg dry	68.6	28.3	1	n			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		и	•	н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-15	0 %				н	"		
General C	hemistry Parameters												

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DT

1328754

% Solids

Sample Id 18-C-12'' SB80903-				Client P 211304.0	-		Matrix Concrete		ection Date -Nov-13 12			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 73.0		μg/kg dry	73.0	54.5	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 73.0		μg/kg dry	73.0	65.7	1			"	"		Χ
11141-16-5	Aroclor-1232	< 73.0		μg/kg dry	73.0	46.8	1				"		Χ
53469-21-9	Aroclor-1242	< 73.0		μg/kg dry	73.0	43.9	1			u	"		Χ
12672-29-6	Aroclor-1248	< 73.0		μg/kg dry	73.0	37.9	1	н			"		Χ
11097-69-1	Aroclor-1254 [2C]	< 73.0		μg/kg dry	73.0	42.7	1	п		ıı	"		Χ
11096-82-5	Aroclor-1260	< 73.0		μg/kg dry	73.0	45.2	1	п		и	"		Χ
37324-23-5	Aroclor-1262	< 73.0		μg/kg dry	73.0	68.0	1	п		и	"		Χ
11100-14-4	Aroclor-1268	< 73.0		μg/kg dry	73.0	30.1	1				"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	0 %				и	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-15	50 %		11		ı	"		
General C	hemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328754

% Solids

16/17-C- SB80903				Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete		ection Date -Nov-13 13			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 764	D	μg/kg dry	764	571	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 764	D	μg/kg dry	764	688	10	п			"		Χ
11141-16-5	Aroclor-1232	< 764	D	μg/kg dry	764	490	10	п		п	"		Χ
53469-21-9	Aroclor-1242	< 764	D	μg/kg dry	764	460	10	п		п	"		Χ
12672-29-6	Aroclor-1248 [2C]	10,700	D	μg/kg dry	764	335	10			п	"		Χ
11097-69-1	Aroclor-1254	< 764	D	μg/kg dry	764	637	10	п		п	"		Х
11096-82-5	Aroclor-1260 [2C]	22,800	D	μg/kg dry	764	382	10				"		Χ
37324-23-5	Aroclor-1262	< 764	D	μg/kg dry	764	712	10				"		Х
11100-14-4	Aroclor-1268	< 764	D	μg/kg dry	764	315	10	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150) %		и			n n		

30-150 %

30-150 %

SM2540 G Mod.

DT

26-Nov-13 26-Nov-13

1328754

10386-84-2

2051-24-3

2051-24-3

4,4-DB-Octafluorobiphenyl

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

50

100

100

Sample I 16/17-C- SB80903				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 13			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 74.7		μg/kg dry	74.7	55.8	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 74.7		μg/kg dry	74.7	67.3	1	н			"		Χ
11141-16-5	Aroclor-1232	< 74.7		μg/kg dry	74.7	48.0	1				"		Х
53469-21-9	Aroclor-1242	< 74.7		μg/kg dry	74.7	45.0	1				"		Х
12672-29-6	Aroclor-1248 [2C]	602		μg/kg dry	74.7	32.8	1	п			"		Х
11097-69-1	Aroclor-1254	< 74.7		μg/kg dry	74.7	62.3	1				"		Х
11096-82-5	Aroclor-1260 [2C]	1,170		μg/kg dry	74.7	37.4	1	п			"		Х
37324-23-5	Aroclor-1262	< 74.7		μg/kg dry	74.7	69.6	1	п			"		Х
11100-14-4	Aroclor-1268	< 74.7		μg/kg dry	74.7	30.8	1	п			"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-15	0 %		и			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	0 %				"	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	0 %		н			"		
General (Chemistry Parameters												
	% Solids	85.5		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	

Sample I 16/17-C- SB80903				<u>t Project #</u> 4.0000.0000		<u>Matrix</u> Concrete	·	ection Date -Nov-13 13			ceived Nov-13	
CAS No.	Analyte(s)	Result Fi	lag Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC										
	ated Biphenyls											
Prepared	by method SW846 3540C											
12674-11-2	Aroclor-1016	< 73.3	μg/kg dr	y 73.3	54.8	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 73.3	μg/kg dr	y 73.3	66.1	1				"		Χ
11141-16-5	Aroclor-1232	< 73.3	μg/kg dr	y 73.3	47.1	1				"		Χ
53469-21-9	Aroclor-1242	< 73.3	μg/kg dr	y 73.3	44.1	1				"		Χ
12672-29-6	Aroclor-1248	352	μg/kg dr	y 73.3	38.1	1				"		Χ
11097-69-1	Aroclor-1254	< 73.3	μg/kg dr	y 73.3	61.1	1				"		Χ
11096-82-5	Aroclor-1260	418	μg/kg dr	y 73.3	45.5	1	п			"		Χ
37324-23-5	Aroclor-1262	< 73.3	μg/kg dr	y 73.3	68.3	1	п			"		Χ
11100-14-4	Aroclor-1268	< 73.3	μg/kg dr	y 73.3	30.2	1				"		Χ
Surrogate re	ecoveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75		30-15	50 %		и		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80		30-18	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	95		30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100		30-18	50 %		н		п	"		
General (Chemistry Parameters											
	% Solids	85.5	%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	

Sample I 16/17-C- SB80903				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 13			ceived Nov-13	
CAS No.	Analyte(s)	Result F	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 73.6		μg/kg dry	73.6	55.0	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 73.6		μg/kg dry	73.6	66.3	1				"		Χ
11141-16-5	Aroclor-1232	< 73.6		μg/kg dry	73.6	47.3	1			н	"		Χ
53469-21-9	Aroclor-1242	< 73.6		μg/kg dry	73.6	44.3	1				"		Х
12672-29-6	Aroclor-1248	140		μg/kg dry	73.6	38.3	1	п			"		Х
11097-69-1	Aroclor-1254	< 73.6		μg/kg dry	73.6	61.4	1	п					Χ
11096-82-5	Aroclor-1260	166		μg/kg dry	73.6	45.6	1	п			"		Χ
37324-23-5	Aroclor-1262	< 73.6		μg/kg dry	73.6	68.6	1	п			"		Χ
11100-14-4	Aroclor-1268	< 73.6		μg/kg dry	73.6	30.4	1				"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		н	•		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-15	0 %		н			"		
General (Chemistry Parameters												
	% Solids	85.8		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	

Sample Id 16/17-C- SB80903				Client P 211304.0			Matrix Concrete		ection Date -Nov-13 13			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls												
	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 73.3		μg/kg dry	73.3	54.7	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	Χ
11104-28-2	Aroclor-1221	< 73.3		μg/kg dry	73.3	66.0	1			"	"		Χ
11141-16-5	Aroclor-1232	< 73.3		μg/kg dry	73.3	47.0	1			п	"		Χ
53469-21-9	Aroclor-1242	< 73.3		μg/kg dry	73.3	44.1	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	91.6		μg/kg dry	73.3	32.2	1	п		п	"		Χ
11097-69-1	Aroclor-1254	< 73.3		μg/kg dry	73.3	61.1	1				"		Χ
11096-82-5	Aroclor-1260	216		μg/kg dry	73.3	45.4	1				"		Χ
37324-23-5	Aroclor-1262	< 73.3		μg/kg dry	73.3	68.3	1				"		Х
11100-14-4	Aroclor-1268	< 73.3		μg/kg dry	73.3	30.2	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %		н			"		
General C	Chemistry Parameters												

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% Solids

Sample Id 16-C-0" SB80903	dentification -21			<u>Client P</u> 211304.0			Matrix Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 14			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 72.0		μg/kg dry	72.0	53.8	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 72.0		μg/kg dry	72.0	64.9	1	н			"		Χ
11141-16-5	Aroclor-1232	< 72.0		μg/kg dry	72.0	46.2	1				"		Χ
53469-21-9	Aroclor-1242	< 72.0		μg/kg dry	72.0	43.3	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	202		μg/kg dry	72.0	31.6	1				"		Χ
11097-69-1	Aroclor-1254	< 72.0		μg/kg dry	72.0	60.0	1				"		Χ
11096-82-5	Aroclor-1260	< 72.0		μg/kg dry	72.0	44.6	1				"		Χ
37324-23-5	Aroclor-1262	< 72.0		μg/kg dry	72.0	67.0	1				"		Χ
11100-14-4	Aroclor-1268	< 72.0		μg/kg dry	72.0	29.7	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		n.		и	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %				н	"		
General C	Chemistry Parameters												

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1328754

% Solids

Sample Id 16-C-3" SB80903-	-22			<u>Client P</u> 211304.0	-		<u>Matrix</u> Concrete		ection Date -Nov-13 14			veived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 71.9		μg/kg dry	71.9	53.7	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 71.9		μg/kg dry	71.9	64.8	1	н			"		Χ
11141-16-5	Aroclor-1232	< 71.9		μg/kg dry	71.9	46.2	1				"		Χ
53469-21-9	Aroclor-1242	< 71.9		μg/kg dry	71.9	43.2	1				"		Х
12672-29-6	Aroclor-1248	86.3		μg/kg dry	71.9	37.4	1				"		Х
11097-69-1	Aroclor-1254	< 71.9		μg/kg dry	71.9	59.9	1				"		Χ
11096-82-5	Aroclor-1260	< 71.9		μg/kg dry	71.9	44.6	1	п			"		Χ
37324-23-5	Aroclor-1262	< 71.9		μg/kg dry	71.9	67.0	1				"		Χ
11100-14-4	Aroclor-1268	< 71.9		μg/kg dry	71.9	29.7	1	и			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		н		н	"		
General C	hemistry Parameters												

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1328754

% Solids

Sample Id 16-C-6" SB80903	dentification -23			Client P 211304.0			<u>Matrix</u> Concrete		ection Date -Nov-13 14	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 72.5		μg/kg dry	72.5	54.2	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 72.5		μg/kg dry	72.5	65.3	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 72.5		μg/kg dry	72.5	46.6	1			u	"		Χ
53469-21-9	Aroclor-1242	< 72.5		μg/kg dry	72.5	43.6	1				"		Χ
12672-29-6	Aroclor-1248	< 72.5		μg/kg dry	72.5	37.7	1			ıı	•		Х
11097-69-1	Aroclor-1254	< 72.5		μg/kg dry	72.5	60.4	1			ıı	"		Х
11096-82-5	Aroclor-1260	< 72.5		μg/kg dry	72.5	45.0	1			и	"		Χ
37324-23-5	Aroclor-1262	< 72.5		μg/kg dry	72.5	67.5	1			и	"		Χ
11100-14-4	Aroclor-1268	< 72.5		μg/kg dry	72.5	29.9	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-15	50 %		н		н	"		
General C	Chemistry Parameters												

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1328754

% Solids

Sample Id 16-C-9" SB80903	0903-24			<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 14			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 60.4		μg/kg dry	60.4	45.1	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 60.4		μg/kg dry	60.4	54.4	1	п			"		Χ
11141-16-5	Aroclor-1232	< 60.4		μg/kg dry	60.4	38.8	1				"		Χ
53469-21-9	Aroclor-1242	< 60.4		μg/kg dry	60.4	36.3	1				"		Χ
12672-29-6	Aroclor-1248	< 60.4		μg/kg dry	60.4	31.4	1				"		Χ
11097-69-1	Aroclor-1254	< 60.4		μg/kg dry	60.4	50.3	1	п			"		Χ
11096-82-5	Aroclor-1260	< 60.4		μg/kg dry	60.4	37.4	1				"		Χ
37324-23-5	Aroclor-1262	< 60.4		μg/kg dry	60.4	56.3	1				"		Χ
11100-14-4	Aroclor-1268	< 60.4		μg/kg dry	60.4	24.9	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		н		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	50 %		II .			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		II		н	"		
General C	Chemistry Parameters												

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% Solids

Sample Id 16-C-12'' SB80903	0903-25			<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 14	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 62.7		μg/kg dry	62.7	46.9	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 62.7		μg/kg dry	62.7	56.5	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 62.7		μg/kg dry	62.7	40.3	1				"		Χ
53469-21-9	Aroclor-1242	< 62.7		μg/kg dry	62.7	37.7	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	329		μg/kg dry	62.7	27.5	1				"		Χ
11097-69-1	Aroclor-1254	358		μg/kg dry	62.7	52.3	1	п		п			Χ
11096-82-5	Aroclor-1260	< 62.7		μg/kg dry	62.7	38.9	1	п					Χ
37324-23-5	Aroclor-1262	< 62.7		μg/kg dry	62.7	58.4	1	п					Χ
11100-14-4	Aroclor-1268	< 62.7		μg/kg dry	62.7	25.9	1	п			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		и		"	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		и		"	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %		п		п			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90		30-150 %				и			"		
General C	Chemistry Parameters												

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% Solids

Sample Io 5-C-0" SB80903	0903-26			<u>Client P</u> 211304.0			Matrix Concrete	<u></u>	ection Date -Nov-13 08			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 60.1		μg/kg dry	60.1	44.9	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 60.1		μg/kg dry	60.1	54.2	1				"		Χ
11141-16-5	Aroclor-1232	< 60.1		μg/kg dry	60.1	38.6	1				"		Χ
53469-21-9	Aroclor-1242	< 60.1		μg/kg dry	60.1	36.2	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	132		μg/kg dry	60.1	26.4	1	II .			"		Χ
11097-69-1	Aroclor-1254	< 60.1		μg/kg dry	60.1	50.1	1				"		Χ
11096-82-5	Aroclor-1260	< 60.1		μg/kg dry	60.1	37.3	1				"		Χ
37324-23-5	Aroclor-1262	< 60.1		μg/kg dry	60.1	56.0	1				"		Χ
11100-14-4	Aroclor-1268	< 60.1		μg/kg dry	60.1	24.8	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	0 %		н			"		

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General Chemistry Parameters % Solids

5-C-3" SB80903	dentification -27			Client P 211304.0	•		Matrix Concrete		ection Date 2-Nov-13 08			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.7		μg/kg dry	68.7	51.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 68.7		μg/kg dry	68.7	61.9	1	п		п			Χ
11141-16-5	Aroclor-1232	< 68.7		μg/kg dry	68.7	44.1	1	п		п	"		Χ
53469-21-9	Aroclor-1242	< 68.7		μg/kg dry	68.7	41.3	1	п		н	"		Χ
12672-29-6	Aroclor-1248	161		μg/kg dry	68.7	35.7	1	п		н	"		Χ
11097-69-1	Aroclor-1254	< 68.7		μg/kg dry	68.7	57.3	1	п			"		Χ
11096-82-5	Aroclor-1260	< 68.7		μg/kg dry	68.7	42.6	1	п		н	"		Χ
37324-23-5	Aroclor-1262	< 68.7		μg/kg dry	68.7	64.0	1	п		н	"		Χ
11100-14-4	Aroclor-1268	< 68.7		μg/kg dry	68.7	28.3	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	0 %		п		н			
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-15	0 %		п		н			
2051-24-3	Decachlorobiphenyl (Sr)	70			30-15	0 %					"		

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2051-24-3

Decachlorobiphenyl (Sr)

[2C]
General Chemistry Parameters
% Solids

75

Sample Id 5-C-6" SB80903	dentification			<u>Client P</u> 211304.00	•		<u>Matrix</u> Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 08			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
	ile Organic Compounds by C	GC											
	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 58.0		μg/kg dry	58.0	43.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 58.0		μg/kg dry	58.0	52.2	1	п			"		Χ
11141-16-5	Aroclor-1232	< 58.0		μg/kg dry	58.0	37.2	1	п			"		Χ
53469-21-9	Aroclor-1242	< 58.0		μg/kg dry	58.0	34.9	1	п			"		Χ
12672-29-6	Aroclor-1248	< 58.0		μg/kg dry	58.0	30.2	1				"		Χ
11097-69-1	Aroclor-1254	< 58.0		μg/kg dry	58.0	48.3	1	п			"		Χ
11096-82-5	Aroclor-1260	< 58.0		μg/kg dry	58.0	35.9	1				"		Χ
37324-23-5	Aroclor-1262	< 58.0		μg/kg dry	58.0	54.0	1				"		Χ
11100-14-4	Aroclor-1268	< 58.0		μg/kg dry	58.0	23.9	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150) %		ı			"		

30-150 %

30-150 %

SM2540 G Mod.

DT

26-Nov-13 26-Nov-13

1328754

10386-84-2

2051-24-3

2051-24-3

4,4-DB-Octafluorobiphenyl

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

70

115

90

5-C-9" SB80903	dentification -29			Client P 211304.0	_		Matrix Concrete		ection Date 2-Nov-13 08	,		Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
	ated Biphenyls												
	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 58.3		μg/kg dry	58.3	43.5	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Х
11104-28-2	Aroclor-1221	< 58.3		μg/kg dry	58.3	52.5	1	"		"	"		Χ
11141-16-5	Aroclor-1232	< 58.3		μg/kg dry	58.3	37.4	1				"		Χ
53469-21-9	Aroclor-1242	< 58.3		μg/kg dry	58.3	35.0	1			п	"		Χ
12672-29-6	Aroclor-1248	163		μg/kg dry	58.3	30.3	1	п			"		Χ
11097-69-1	Aroclor-1254	< 58.3		μg/kg dry	58.3	48.6	1						Χ
11096-82-5	Aroclor-1260	< 58.3		μg/kg dry	58.3	36.1	1				"		Χ
37324-23-5	Aroclor-1262	< 58.3		μg/kg dry	58.3	54.3	1				"		Х
11100-14-4	Aroclor-1268	< 58.3		μg/kg dry	58.3	24.0	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150	0 %		н		"	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90		30-150 %				н			"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150	0 %				п	"		

SM2540 G Mod.

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DT

1328754

2051-24-3

Decachlorobiphenyl (Sr)

[2C]
General Chemistry Parameters
% Solids

105

Sample Id 5-C-12" SB80903-	-30			<u>Client P</u> 211304.0	•		Matrix Concrete	·	ection Date -Nov-13 08			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 60.3		μg/kg dry	60.3	45.0	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 60.3		μg/kg dry	60.3	54.3	1			н	"		Χ
11141-16-5	Aroclor-1232	< 60.3		μg/kg dry	60.3	38.7	1				"		Χ
53469-21-9	Aroclor-1242	< 60.3		μg/kg dry	60.3	36.3	1	п			"		Χ
12672-29-6	Aroclor-1248 [2C]	826		μg/kg dry	60.3	26.5	1	п		н	"		Х
11097-69-1	Aroclor-1254	< 60.3		μg/kg dry	60.3	50.2	1	п		н	"		Х
11096-82-5	Aroclor-1260	< 60.3		μg/kg dry	60.3	37.4	1				"		Х
37324-23-5	Aroclor-1262	< 60.3		μg/kg dry	60.3	56.1	1				"		Х
11100-14-4	Aroclor-1268	< 60.3		μg/kg dry	60.3	24.9	1	11			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %				п	"		
General C	hemistry Parameters												

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DT

1328754

% Solids

Sample Io 5-C-3"D SB80903	0903-31			<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 09			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 57.9		μg/kg dry	57.9	43.2	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 57.9		μg/kg dry	57.9	52.2	1	п			"		Χ
11141-16-5	Aroclor-1232	< 57.9		μg/kg dry	57.9	37.2	1				"		Χ
53469-21-9	Aroclor-1242	< 57.9		μg/kg dry	57.9	34.8	1	н			"		Χ
12672-29-6	Aroclor-1248	92.6		μg/kg dry	57.9	30.1	1	н			"		Χ
11097-69-1	Aroclor-1254	< 57.9		μg/kg dry	57.9	48.2	1	п			"		Χ
11096-82-5	Aroclor-1260	< 57.9		μg/kg dry	57.9	35.9	1				"		Χ
37324-23-5	Aroclor-1262	< 57.9		μg/kg dry	57.9	53.9	1				"		Χ
11100-14-4	Aroclor-1268	< 57.9		μg/kg dry	57.9	23.9	1	п			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		н		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %		II .			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %				п	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328754

% Solids

Sample Id 5-C-6"D SB80903	0903-32			<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 09	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	tile Organic Compounds by G	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 60.9		μg/kg dry	60.9	45.5	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 60.9		μg/kg dry	60.9	54.9	1				"		Χ
11141-16-5	Aroclor-1232	< 60.9		μg/kg dry	60.9	39.1	1	п		н	"		Χ
53469-21-9	Aroclor-1242	< 60.9		μg/kg dry	60.9	36.7	1	п			"		Χ
12672-29-6	Aroclor-1248	222		μg/kg dry	60.9	31.7	1	ı			"		Χ
11097-69-1	Aroclor-1254	< 60.9		μg/kg dry	60.9	50.8	1				"		Χ
11096-82-5	Aroclor-1260	< 60.9		μg/kg dry	60.9	37.8	1				"		Χ
37324-23-5	Aroclor-1262	< 60.9		μg/kg dry	60.9	56.8	1				"		Χ
11100-14-4	Aroclor-1268	< 60.9		μg/kg dry	60.9	25.1	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150	0 %		н		"	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150	0 %		н		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150	0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150	0 %		н			"		

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1328755

General Chemistry Parameters % Solids

3/4-I-0''	80903-33			<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 09			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.7		μg/kg dry	68.7	51.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 68.7		μg/kg dry	68.7	61.9	1	п			"		Χ
11141-16-5	Aroclor-1232	< 68.7		μg/kg dry	68.7	44.1	1			н	"		Χ
53469-21-9	Aroclor-1242	< 68.7		μg/kg dry	68.7	41.3	1	п			"		Χ
12672-29-6	Aroclor-1248 [2C]	175		μg/kg dry	68.7	30.2	1	п			"		Х
11097-69-1	Aroclor-1254 [2C]	151		μg/kg dry	68.7	40.2	1	п					Х
11096-82-5	Aroclor-1260 [2C]	85.9		μg/kg dry	68.7	34.4	1	п					Х
37324-23-5	Aroclor-1262	< 68.7		μg/kg dry	68.7	64.0	1	п					Х
11100-14-4	Aroclor-1268	< 68.7		μg/kg dry	68.7	28.3	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	60 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		п			"		
General C	Chemistry Parameters												

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DT

1328755

% Solids

Sample Id 3/4-I-3'' SB80903	dentification			Client P 211304.0			<u>Matrix</u> Concrete		ection Date 2-Nov-13 09	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 76.9		μg/kg dry	76.9	57.5	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 76.9		μg/kg dry	76.9	69.3	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 76.9		μg/kg dry	76.9	49.4	1			u	"		Χ
53469-21-9	Aroclor-1242	< 76.9		μg/kg dry	76.9	46.3	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	154		μg/kg dry	76.9	33.8	1				"		Χ
11097-69-1	Aroclor-1254	135		μg/kg dry	76.9	64.1	1			ıı	"		Χ
11096-82-5	Aroclor-1260	< 76.9		μg/kg dry	76.9	47.7	1			и	"		Χ
37324-23-5	Aroclor-1262	< 76.9		μg/kg dry	76.9	71.6	1			и	"		Χ
11100-14-4	Aroclor-1268	< 76.9		μg/kg dry	76.9	31.7	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-15	50 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		н		н	"		
General C	Chemistry Parameters												

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1328755

% Solids

Sample Id 3/4-I-6'' SB80903	-35			Client P 211304.0			Matrix Concrete		ection Date -Nov-13 09			veived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 69.2		μg/kg dry	69.2	51.7	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 69.2		μg/kg dry	69.2	62.4	1				"		Χ
11141-16-5	Aroclor-1232	< 69.2		μg/kg dry	69.2	44.4	1				"		Χ
53469-21-9	Aroclor-1242	< 69.2		μg/kg dry	69.2	41.6	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	235		μg/kg dry	69.2	30.4	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	228		μg/kg dry	69.2	40.5	1				"		Χ
11096-82-5	Aroclor-1260	< 69.2		μg/kg dry	69.2	42.9	1				"		Χ
37324-23-5	Aroclor-1262	< 69.2		μg/kg dry	69.2	64.5	1				"		Χ
11100-14-4	Aroclor-1268	< 69.2		μg/kg dry	69.2	28.5	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		п		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-15	50 %		п		п	"		
General C	Chemistry Parameters												

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1328755

% Solids

Sample Id 9-J-0'' SB80903-	-36			Client P 211304.0	-		Matrix Concrete		ection Date -Nov-13 10			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 74.2		μg/kg dry	74.2	55.4	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Х
11104-28-2	Aroclor-1221	< 74.2		μg/kg dry	74.2	66.9	1	п		u u	"		Χ
11141-16-5	Aroclor-1232	< 74.2		μg/kg dry	74.2	47.6	1			"	"		Χ
53469-21-9	Aroclor-1242	< 74.2		μg/kg dry	74.2	44.6	1			u	"		Χ
12672-29-6	Aroclor-1248	< 74.2		μg/kg dry	74.2	38.6	1	п			"		Χ
11097-69-1	Aroclor-1254	< 74.2		μg/kg dry	74.2	61.9	1	п			"		Χ
11096-82-5	Aroclor-1260	< 74.2		μg/kg dry	74.2	46.0	1			и	"		Χ
37324-23-5	Aroclor-1262	< 74.2		μg/kg dry	74.2	69.1	1			ıı	"		Χ
11100-14-4	Aroclor-1268	< 74.2		μg/kg dry	74.2	30.6	1	п			"		Х
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		N		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %		N		ı	"		
General C	hemistry Parameters												

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DT

1328755

% Solids

Sample Io 9-J-3'' SB80903	dentification -37			Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete		ection Date -Nov-13 10			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	tile Organic Compounds by C	GC											
	ated Biphenyls I by method SW846 3540C												
12674-11-2	Aroclor-1016	< 71.8		μg/kg dry	71.8	53.6	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 71.8		μg/kg dry	71.8	64.7	1			п			Χ
11141-16-5	Aroclor-1232	< 71.8		μg/kg dry	71.8	46.1	1						Χ
53469-21-9	Aroclor-1242	< 71.8		μg/kg dry	71.8	43.2	1						Χ
12672-29-6	Aroclor-1248	144		μg/kg dry	71.8	37.3	1			п			Х
11097-69-1	Aroclor-1254	< 71.8		μg/kg dry	71.8	59.8	1			п			Х
11096-82-5	Aroclor-1260	< 71.8		μg/kg dry	71.8	44.5	1						Χ
37324-23-5	Aroclor-1262	< 71.8		μg/kg dry	71.8	66.9	1			п			Χ
11100-14-4	Aroclor-1268	< 71.8		μg/kg dry	71.8	29.6	1	ıı			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		н		"	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		н	•	ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85		30-150 %				п		н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %		н		"	"		

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DT

1328755

General Chemistry Parameters % Solids

Sample Id 9-J-6'' SB80903	dentification -38			Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete		ection Date			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 67.2		μg/kg dry	67.2	50.2	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 67.2		μg/kg dry	67.2	60.5	1				"		Χ
11141-16-5	Aroclor-1232	< 67.2		μg/kg dry	67.2	43.1	1						Χ
53469-21-9	Aroclor-1242	< 67.2		μg/kg dry	67.2	40.4	1	н			"		Χ
12672-29-6	Aroclor-1248 [2C]	104		μg/kg dry	67.2	29.5	1						Χ
11097-69-1	Aroclor-1254	< 67.2		μg/kg dry	67.2	56.0	1				"		Χ
11096-82-5	Aroclor-1260	< 67.2		μg/kg dry	67.2	41.7	1	н			"		Χ
37324-23-5	Aroclor-1262	< 67.2		μg/kg dry	67.2	62.6	1	н			"		Χ
11100-14-4	Aroclor-1268	< 67.2		μg/kg dry	67.2	27.7	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	0 %		ı	•	n	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н	•	ıı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	60 %							
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	0 %				п	"		

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General Chemistry Parameters % Solids

Sample Io 9-J-3''D SB80903	dentification			<u>Project #</u> 0000.0000		<u>Matrix</u> Concrete		ection Date -Nov-13 10			ceived Nov-13	
CAS No.	Analyte(s)	Result Flag	y Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC										
	ated Biphenyls by method SW846 3540C											
12674-11-2	Aroclor-1016	< 59.9	μg/kg dry	59.9	44.7	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 59.9	μg/kg dry	59.9	54.0	1	II .			"		Χ
11141-16-5	Aroclor-1232	< 59.9	μg/kg dry	59.9	38.4	1			п	"		Χ
53469-21-9	Aroclor-1242	< 59.9	μg/kg dry	59.9	36.0	1	II .			"		Χ
12672-29-6	Aroclor-1248	< 59.9	μg/kg dry	59.9	31.1	1				"		Χ
11097-69-1	Aroclor-1254	< 59.9	μg/kg dry	59.9	49.9	1				"		Χ
11096-82-5	Aroclor-1260	< 59.9	μg/kg dry	59.9	37.1	1			п	"		Χ
37324-23-5	Aroclor-1262	< 59.9	μg/kg dry	59.9	55.8	1			п	"		Χ
11100-14-4	Aroclor-1268	< 59.9	μg/kg dry	59.9	24.7	1	п			u		Χ
Surrogate red	coveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90		30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl	100		30-15	0 %					"		

30-150 %

30-150 %

SM2540 G Mod.

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1328755

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

2051-24-3

2051-24-3

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

100

120

Sample Id 9-J-6''D SB80903	dentification -40		Client P 211304.0			<u>Matrix</u> Concrete		ection Date -Nov-13 10			veived Nov-13	
CAS No.	Analyte(s)	Result Fl	ag Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC										
	ated Biphenyls by method SW846 3540C											
12674-11-2	Aroclor-1016	< 67.4	μg/kg dry	67.4	50.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	Χ
11104-28-2	Aroclor-1221	< 67.4	μg/kg dry	67.4	60.7	1			н	"		Χ
11141-16-5	Aroclor-1232	< 67.4	μg/kg dry	67.4	43.3	1				"		Χ
53469-21-9	Aroclor-1242	< 67.4	μg/kg dry	67.4	40.5	1			н	"		Χ
12672-29-6	Aroclor-1248	< 67.4	μg/kg dry	67.4	35.0	1			н	"		Χ
11097-69-1	Aroclor-1254	< 67.4	μg/kg dry	67.4	56.2	1			н	"		Χ
11096-82-5	Aroclor-1260	< 67.4	μg/kg dry	67.4	41.8	1			н	"		Χ
37324-23-5	Aroclor-1262	< 67.4	μg/kg dry	67.4	62.8	1				"		Χ
11100-14-4	Aroclor-1268	< 67.4	μg/kg dry	67.4	27.8	1	п			"		Χ
Surrogate red	coveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90		30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100		30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	110		30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115		30-15	0 %		п			"		

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General Chemistry Parameters % Solids

Sample I 7/8-W/A SB80903				Client P 211304.0			Matrix Concrete	·	ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 74.3		μg/kg dry	74.3	55.5	1	SW846 8082A	26-Nov-13	27-Nov-13	IMR	1328688	Χ
11104-28-2	Aroclor-1221	< 74.3		μg/kg dry	74.3	66.9	1			п	"		Χ
11141-16-5	Aroclor-1232	< 74.3		μg/kg dry	74.3	47.7	1	п			"		Χ
53469-21-9	Aroclor-1242	< 74.3		μg/kg dry	74.3	44.7	1	п		н	"		Χ
12672-29-6	Aroclor-1248 [2C]	249		μg/kg dry	74.3	32.6	1			п	"		Χ
11097-69-1	Aroclor-1254	223		μg/kg dry	74.3	61.9	1				"		Χ
11096-82-5	Aroclor-1260	100		μg/kg dry	74.3	46.0	1				"		Χ
37324-23-5	Aroclor-1262	< 74.3		μg/kg dry	74.3	69.2	1				"		Χ
11100-14-4	Aroclor-1268	< 74.3		μg/kg dry	74.3	30.6	1	н			"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-15	60 %					W		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	40			30-15	0 %		N			"		
2051-24-3	Decachlorobiphenyl (Sr)	40			30-15	i0 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	45			30-15	0 %		я			"		
General (Chemistry Parameters												
	% Solids	85.4		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	

Sample I 7/8-W/A SB80903			· · · · · · · · · · · · · · · · · · ·	<u>Project #</u> 0000.0000		Matrix Concrete		ection Date			ceived Nov-13	
CAS No.	Analyte(s)	Result Fla	g Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC										
Polychlorin	ated Biphenyls											
Prepared	by method SW846 3540C											
12674-11-2	Aroclor-1016	< 70.8	μg/kg dry	70.8	52.9	1	SW846 8082A	26-Nov-13	27-Nov-13	IMR	1328688	Χ
11104-28-2	Aroclor-1221	< 70.8	μg/kg dry	70.8	63.8	1				"		Χ
11141-16-5	Aroclor-1232	< 70.8	μg/kg dry	70.8	45.5	1	п		и	"		Χ
53469-21-9	Aroclor-1242	< 70.8	μg/kg dry	70.8	42.6	1				"		Х
12672-29-6	Aroclor-1248 [2C]	227	μg/kg dry	70.8	31.1	1			н	"		Х
11097-69-1	Aroclor-1254	343	μg/kg dry	70.8	59.0	1				"		Х
11096-82-5	Aroclor-1260	156	μg/kg dry	70.8	43.9	1				"		Х
37324-23-5	Aroclor-1262	< 70.8	μg/kg dry	70.8	66.0	1				"		Х
11100-14-4	Aroclor-1268	< 70.8	μg/kg dry	70.8	29.2	1	ı			"		Χ
Surrogate re	coveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30		30-15	50 %				и	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35		30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	35		30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40		30-15	50 %		н		"	"		
General (Chemistry Parameters											
	% Solids	86.6	%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	

Sample I 7/8-W/A SB80903				Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete		ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 75.4		μg/kg dry	75.4	56.4	1	SW846 8082A	26-Nov-13	30-Nov-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 75.4		μg/kg dry	75.4	68.0	1				"		Χ
11141-16-5	Aroclor-1232	< 75.4		μg/kg dry	75.4	48.4	1	и			"		Χ
53469-21-9	Aroclor-1242	< 75.4		μg/kg dry	75.4	45.4	1				"		Χ
12672-29-6	Aroclor-1248	< 75.4		μg/kg dry	75.4	39.2	1				"		Χ
11097-69-1	Aroclor-1254	532		μg/kg dry	75.4	62.9	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	124		μg/kg dry	75.4	37.8	1				"		Χ
37324-23-5	Aroclor-1262	< 75.4		μg/kg dry	75.4	70.3	1				"		Χ
11100-14-4	Aroclor-1268	< 75.4		μg/kg dry	75.4	31.1	1	и			"		Х
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-15	50 %		н	•	н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	45			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	50			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-15	50 %		н		н	"		
General (Chemistry Parameters												
	% Solids	86.3		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	

Sample Id 3/4-C-3" SB80903				Client P 211304.0			<u>Matrix</u> Concrete	'	ection Date			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.7		μg/kg dry	68.7	51.4	1	SW846 8082A	26-Nov-13	30-Nov-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 68.7		μg/kg dry	68.7	61.9	1	ı		п	"		Χ
11141-16-5	Aroclor-1232	< 68.7		μg/kg dry	68.7	44.1	1			u	"		Χ
53469-21-9	Aroclor-1242	< 68.7		μg/kg dry	68.7	41.4	1			u	"		Χ
12672-29-6	Aroclor-1248	8,420		μg/kg dry	68.7	35.7	1	ı		п	"		Χ
11097-69-1	Aroclor-1254 [2C]	10,700		μg/kg dry	68.7	40.3	1	ı		п	"		Χ
11096-82-5	Aroclor-1260 [2C]	1,340		μg/kg dry	68.7	34.4	1			u	"		Χ
37324-23-5	Aroclor-1262	< 68.7		μg/kg dry	68.7	64.0	1			u	"		Χ
11100-14-4	Aroclor-1268	< 68.7		μg/kg dry	68.7	28.4	1	п		ıı	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-15	50 %		и			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	55			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	60			30-15	50 %		и		н	"		
General C	Chemistry Parameters												

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1328755

% Solids

Sample Id 3/4-C-6'' SB80903	0903-45			Client P 211304.0	-		<u>Matrix</u> Concrete		ection Date -Nov-13 11			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.4		μg/kg dry	68.4	51.1	1	SW846 8082A	26-Nov-13	30-Nov-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 68.4		μg/kg dry	68.4	61.6	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 68.4		μg/kg dry	68.4	43.9	1				"		Χ
53469-21-9	Aroclor-1242	< 68.4		μg/kg dry	68.4	41.1	1				"		Χ
12672-29-6	Aroclor-1248	1,250		μg/kg dry	68.4	35.5	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	1,600		μg/kg dry	68.4	40.0	1						Х
11096-82-5	Aroclor-1260	167		μg/kg dry	68.4	42.4	1						Χ
37324-23-5	Aroclor-1262	< 68.4		μg/kg dry	68.4	63.7	1						Χ
11100-14-4	Aroclor-1268	< 68.4		μg/kg dry	68.4	28.2	1	ı			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-15	50 %		н		"	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-15	50 %		н		"	"		
2051-24-3	Decachlorobiphenyl (Sr)	40			30-15	50 %		п		п			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40			30-15	50 %		н	•		"		
General C	Chemistry Parameters												

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DT

1328755

% Solids

Sample Id 0-C-3"D SB80903-	dentification -46			Client P 211304.0	-		<u>Matrix</u> Concrete		ection Date -Nov-13 13			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 67.0		μg/kg dry	67.0	50.0	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 67.0		μg/kg dry	67.0	60.3	1	и			"		Χ
11141-16-5	Aroclor-1232	< 67.0		μg/kg dry	67.0	43.0	1				"		Χ
53469-21-9	Aroclor-1242	< 67.0		μg/kg dry	67.0	40.3	1				"		Χ
12672-29-6	Aroclor-1248	375		μg/kg dry	67.0	34.8	1				"		Х
11097-69-1	Aroclor-1254 [2C]	733		μg/kg dry	67.0	39.2	1				"		Х
11096-82-5	Aroclor-1260 [2C]	244		μg/kg dry	67.0	33.5	1	п			"		Χ
37324-23-5	Aroclor-1262	< 67.0		μg/kg dry	67.0	62.4	1	п			"		Χ
11100-14-4	Aroclor-1268	< 67.0		μg/kg dry	67.0	27.6	1	п			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-15	50 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	35			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	35			30-15	50 %		н		н	"		
General C	hemistry Parameters												

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DT

1328755

% Solids

Sample Id 0-C-6"D SB80903-	<u>-47</u>			Client P 211304.0	-		<u>Matrix</u> Concrete		ection Date -Nov-13 13			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 66.7		μg/kg dry	66.7	49.9	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 66.7		μg/kg dry	66.7	60.1	1	н			"		Χ
11141-16-5	Aroclor-1232	< 66.7		μg/kg dry	66.7	42.9	1				"		Χ
53469-21-9	Aroclor-1242	< 66.7		μg/kg dry	66.7	40.1	1				"		Х
12672-29-6	Aroclor-1248	297		μg/kg dry	66.7	34.7	1				"		Х
11097-69-1	Aroclor-1254 [2C]	447		μg/kg dry	66.7	39.1	1				"		Х
11096-82-5	Aroclor-1260 [2C]	< 66.7		μg/kg dry	66.7	33.4	1	п			"		Х
37324-23-5	Aroclor-1262	< 66.7		μg/kg dry	66.7	62.2	1				"		Х
11100-14-4	Aroclor-1268	< 66.7		μg/kg dry	66.7	27.5	1	п			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-15	50 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	30			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	35			30-15	50 %		п		п	"		
General C	hemistry Parameters												

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DT

1328755

% Solids

Sample Id 0/1-C-0'' SB80903-	dentification -48			<u>Client P</u> 211304.0			Matrix Concrete	<u></u>	ection Date -Nov-13 14			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ted Biphenyls												
<u>Prepared</u>	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 64.3		μg/kg dry	64.3	48.0	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 64.3		μg/kg dry	64.3	57.9	1	п			"		Χ
11141-16-5	Aroclor-1232	< 64.3		μg/kg dry	64.3	41.2	1				"		Χ
53469-21-9	Aroclor-1242	< 64.3		μg/kg dry	64.3	38.6	1				"		Χ
12672-29-6	Aroclor-1248	< 64.3		μg/kg dry	64.3	33.4	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	86.7		μg/kg dry	64.3	37.6	1				"		Χ
11096-82-5	Aroclor-1260	< 64.3		μg/kg dry	64.3	39.8	1				"		Χ
37324-23-5	Aroclor-1262	< 64.3		μg/kg dry	64.3	59.9	1				"		Χ
11100-14-4	Aroclor-1268	< 64.3		μg/kg dry	64.3	26.5	1	и			"		Х
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	35			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	35			30-15	0 %		н			"		
General C	hemistry Parameters												

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% Solids

Sample Id 0/1-C-3'' SB80903-	<u>-49</u>			<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 14			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ted Biphenyls												
<u>Prepared</u>	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 66.0		μg/kg dry	66.0	49.3	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 66.0		μg/kg dry	66.0	59.5	1				"		Χ
11141-16-5	Aroclor-1232	< 66.0		μg/kg dry	66.0	42.4	1	п		н	"		Χ
53469-21-9	Aroclor-1242	< 66.0		μg/kg dry	66.0	39.7	1			п	"		Χ
12672-29-6	Aroclor-1248	< 66.0		μg/kg dry	66.0	34.3	1			п	"		Χ
11097-69-1	Aroclor-1254	79.2		μg/kg dry	66.0	55.0	1				"		Χ
11096-82-5	Aroclor-1260	< 66.0		μg/kg dry	66.0	40.9	1				"		Χ
37324-23-5	Aroclor-1262	< 66.0		μg/kg dry	66.0	61.5	1				"		Χ
11100-14-4	Aroclor-1268	< 66.0		μg/kg dry	66.0	27.2	1	п			"		Χ
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-15	50 %		N			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	40			30-15	50 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	45			30-15	50 %		N			"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328755

% Solids

Sample I 0/1-C-6' SB80903				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Nov-13 14			Nov-13	
CAS No.	Analyte(s)	Result I	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	d by method SW846 3540C												
12674-11-2	Aroclor-1016	< 68.2		μg/kg dry	68.2	50.9	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 68.2		μg/kg dry	68.2	61.4	1	н			"		Χ
11141-16-5	Aroclor-1232	< 68.2		μg/kg dry	68.2	43.8	1				"		Χ
53469-21-9	Aroclor-1242	< 68.2		μg/kg dry	68.2	41.0	1			н	"		Χ
12672-29-6	Aroclor-1248	< 68.2		μg/kg dry	68.2	35.5	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	113		μg/kg dry	68.2	39.9	1	и			"		Χ
11096-82-5	Aroclor-1260	71.6		μg/kg dry	68.2	42.3	1				"		Χ
37324-23-5	Aroclor-1262	< 68.2		μg/kg dry	68.2	63.5	1	п					Χ
11100-14-4	Aroclor-1268	< 68.2		μg/kg dry	68.2	28.1	1	п			"		Х
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-15	0 %		и	•	п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-15	0 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	55			30-15	60 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	55			30-15	50 %		н		ı	"		
General (Chemistry Parameters												
	% Solids	94.3		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	

Sample Id 0/1-C-9'' SB80903-	-51			Client P 211304.0	-		<u>Matrix</u> Concrete		ection Date -Nov-13 14			veived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 63.3		μg/kg dry	63.3	47.3	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 63.3		μg/kg dry	63.3	57.0	1	и			"		Χ
11141-16-5	Aroclor-1232	< 63.3		μg/kg dry	63.3	40.6	1				"		Χ
53469-21-9	Aroclor-1242	< 63.3		μg/kg dry	63.3	38.1	1				"		Χ
12672-29-6	Aroclor-1248	< 63.3		μg/kg dry	63.3	32.9	1				"		Х
11097-69-1	Aroclor-1254 [2C]	91.8		μg/kg dry	63.3	37.1	1				"		Х
11096-82-5	Aroclor-1260	< 63.3		μg/kg dry	63.3	39.2	1	п			"		Χ
37324-23-5	Aroclor-1262	< 63.3		μg/kg dry	63.3	59.0	1				"		Χ
11100-14-4	Aroclor-1268	< 63.3		μg/kg dry	63.3	26.1	1	и			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40			30-15	50 %		н	•	н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	40			30-15	50 %		н	•	н	"		
2051-24-3	Decachlorobiphenyl (Sr)	40			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40			30-15	50 %		н		н	"		
General C	hemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328755

% Solids

Sample Id 0/1-C-12' SB80903				Client P 211304.0			Matrix Concrete		ection Date -Nov-13 14			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 72.6		μg/kg dry	72.6	54.3	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 72.6		μg/kg dry	72.6	65.4	1				"		Χ
11141-16-5	Aroclor-1232	< 72.6		μg/kg dry	72.6	46.6	1				"		Χ
53469-21-9	Aroclor-1242	< 72.6		μg/kg dry	72.6	43.7	1	п			"		Χ
12672-29-6	Aroclor-1248	< 72.6		μg/kg dry	72.6	37.8	1				"		Χ
11097-69-1	Aroclor-1254	98.0		μg/kg dry	72.6	60.5	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	72.6		μg/kg dry	72.6	36.3	1				"		Χ
37324-23-5	Aroclor-1262	< 72.6		μg/kg dry	72.6	67.7	1				"		Χ
11100-14-4	Aroclor-1268	< 72.6		μg/kg dry	72.6	30.0	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-15	50 %		н		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	30			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	30			30-15	50 %		н		н	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert
Semivolat	ile Organic Compounds by C	GC											
•	ted Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 2460	D	μg/kg dry	2460	1840	10	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 2460	D	μg/kg dry	2460	2220	10				"		Χ
11141-16-5	Aroclor-1232	< 2460	D	μg/kg dry	2460	1580	10				"		Χ
53469-21-9	Aroclor-1242	< 2460	D	μg/kg dry	2460	1480	10				"		Χ
12672-29-6	Aroclor-1248 [2C]	37,800	D	μg/kg dry	2460	1080	10				"		Χ
11097-69-1	Aroclor-1254 [2C]	53,100	D	μg/kg dry	2460	1440	10				"		Χ
11096-82-5	Aroclor-1260 [2C]	106,000	D	μg/kg dry	2460	1230	10				"		Х
37324-23-5	Aroclor-1262	< 2460	D	μg/kg dry	2460	2290	10				"		Х
11100-14-4	Aroclor-1268	< 2460	D	μg/kg dry	2460	1010	10	п			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	150			30-15	0 %		п			"		
General C	hemistry Parameters												
	% Solids	26.6		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	

Received

25-Nov-13

Sample Io 0/1-C-CF SB80903				<u>Client P</u> 211304.00			<u>Matrix</u> Cork		ection Date 2-Nov-13 14	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 209		μg/kg dry	209	156	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 209		μg/kg dry	209	188	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 209		μg/kg dry	209	134	1	п		u	"		Х
53469-21-9	Aroclor-1242	< 209		μg/kg dry	209	125	1	п			"		Χ
12672-29-6	Aroclor-1248	< 209		μg/kg dry	209	108	1				"		Χ
11097-69-1	Aroclor-1254	1,930	Р	μg/kg dry	209	174	1	п		ıı	"		Χ
11096-82-5	Aroclor-1260	< 209		μg/kg dry	209	129	1			и	"		Х
37324-23-5	Aroclor-1262	< 209		μg/kg dry	209	194	1			и	"		Χ
11100-14-4	Aroclor-1268	< 209		μg/kg dry	209	86.0	1	п			"		Χ
Surrogate red	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	1480	S02		30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	115			30-15	i0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %		н		ı	"		
General C	hemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

alyte(s)	Result	Flag Un	its *RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Limi
tch 1328683 - SW846 3540C									
Blank (1328683-BLK1)				Pre	epared: 25-No	v-13 Analyzed	l: 26-Nov-13		
Aroclor-1016	< 64.5	μg/kg	wet 64.5			•			
Aroclor-1016 [2C]	< 64.5	μg/kg							
Aroclor-1221	< 64.5	μg/kg	wet 64.5						
Aroclor-1221 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1232	< 64.5	μg/kg	wet 64.5						
Aroclor-1232 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1242	< 64.5	μg/kg	wet 64.5						
Aroclor-1242 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1248	< 64.5	μg/kg	wet 64.5						
Aroclor-1248 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1254	< 64.5	μg/kg	wet 64.5						
Aroclor-1254 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1260	< 64.5	μg/kg	wet 64.5						
Aroclor-1260 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1262	< 64.5	μg/kg	wet 64.5						
Aroclor-1262 [2C]	< 64.5	μg/kg	wet 64.5						
Aroclor-1268	< 64.5	μg/kg	wet 64.5						
Aroclor-1268 [2C]	< 64.5	μg/kg	wet 64.5						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.0	μg/kg	wet	64.5		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.5	μg/kg		64.5		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	74.1	μg/kg		64.5		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	70.9	μg/kg	wet	64.5		110	30-150		
LCS (1328683-BS1)				Pre	epared: 25-No	v-13 Analyzed	l: 26-Nov-13		
Aroclor-1016	854	μg/kg	wet 61.7	771		111	40-140		
Aroclor-1016 [2C]	925	μg/kg		771		120	40-140		
Aroclor-1260	869	μg/kg		771		113	40-140		
Aroclor-1260 [2C]	876	μg/kg		771		114	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.6	μg/kg	wet	61.7		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	61.7	μg/kg		61.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	74.0	μg/kg		61.7		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	77.1	μg/kg		61.7		125	30-150		
LCS Dup (1328683-BSD1)		10 0			enared: 25-No	v-13 Analyzed			
Aroclor-1016	969	μg/kg	wet 66.6	833	500.00.20.10	116	40-140	5	30
Aroclor-1016 [2C]	982	μg/kg		833		118	40-140	2	30
Aroclor-1260	962	μg/kg		833		116	40-140	2	30
Aroclor-1260 [2C]	1030	μg/kg		833		124	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	69.9	μg/kg	wet	66.6		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	69.9	μg/kg		66.6		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	79.9	μg/kg		66.6		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	93.3	μg/kg		66.6		140	30-150		
Duplicate (1328683-DUP1)	55.5		e: SB80903-10		anarod: 25-No	v-13 Analyzed			
Aroclor-1016	< 70.1	<u>σσαισ</u> μg/kg		110	BRL	V 10 Analyzed	1. 20 1400 10		30
Aroclor-1016 [2C]	< 70.1	μg/kg	-		BRL				30
Aroclor-1221	< 70.1	μg/kg μg/kg	•		BRL				30
Aroclor-1221 [2C]	< 70.1 < 70.1	μg/kg μg/kg	•		BRL				30
Aroclor-1232	< 70.1	μg/kg	•		BRL				30
Aroclor-1232 [2C]	< 70.1	μg/kg			BRL				30
Aroclor-1242	< 70.1	μg/kg	•		BRL				30
Aroclor-1242 [2C]	< 70.1	μg/kg μg/kg	•		BRL				30
	~ / U. I								JU

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
atch 1328683 - SW846 3540C										
<u>Duplicate (1328683-DUP1)</u>		9	Source: SB	80903-10	Pre	pared: 25-No	v-13 Analyzed	: 26-Nov-13		
Aroclor-1248 [2C]	326		μg/kg dry	70.1		353			8	30
Aroclor-1254	638		μg/kg dry	70.1		785			21	30
Aroclor-1254 [2C]	659		μg/kg dry	70.1		806			20	30
Aroclor-1260	< 70.1		μg/kg dry	70.1		BRL				30
Aroclor-1260 [2C]	< 70.1		μg/kg dry	70.1		BRL				30
Aroclor-1262	< 70.1		μg/kg dry	70.1		BRL				30
Aroclor-1262 [2C]	< 70.1		μg/kg dry	70.1		BRL				30
Aroclor-1268	< 70.1		μg/kg dry	70.1		BRL				30
Aroclor-1268 [2C]	< 70.1		μg/kg dry	70.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.1		μg/kg dry		70.1		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	59.6		μg/kg dry		70.1		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	66.6		μg/kg dry		70.1		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	73.6		μg/kg dry		70.1		105	30-150		
Matrix Spike (1328683-MS1)		5	Source: SB	80903-10	Pre	pared: 25-No	v-13 Analyzed	: 26-Nov-13		
Aroclor-1016	817	-	μg/kg dry	64.6	807	BRL	101	40-140		
Aroclor-1016 [2C]	775		μg/kg dry	64.6	807	BRL	96	40-140		
Aroclor-1260	675		μg/kg dry	64.6	807	BRL	84	40-140		
Aroclor-1260 [2C]	694		μg/kg dry	64.6	807	BRL	86	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	48.4		μg/kg dry		64.6		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	48.4		μg/kg dry		64.6		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	58.1		μg/kg dry		64.6		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	61.4		μg/kg dry		64.6		95	30-150		
Matrix Spike Dup (1328683-MSD1)			Source: SB	80903-10	Pre	pared: 25-No	v-13 Analyzed	: 26-Nov-13		
Aroclor-1016	739	-	μg/kg dry	62.3	779	BRL	95	40-140	7	30
Aroclor-1016 [2C]	773		μg/kg dry	62.3	779	BRL	99	40-140	3	30
Aroclor-1260	867		μg/kg dry	62.3	779	BRL	111	40-140	28	30
Aroclor-1260 [2C]	842		μg/kg dry	62.3	779	BRL	108	40-140	23	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.1		μg/kg dry		62.3		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	56.1		μg/kg dry		62.3		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	62.3		μg/kg dry		62.3		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	68.6		μg/kg dry		62.3		110	30-150		
atch 1328684 - SW846 3540C										
Blank (1328684-BLK1)					Pre	pared: 25-No	v-13 Analyzed	: 27-Nov-13		
Aroclor-1016	< 61.4		μg/kg wet	61.4						
Aroclor-1016 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1221	< 61.4		μg/kg wet	61.4						
Aroclor-1221 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1232	< 61.4		μg/kg wet	61.4						
Aroclor-1232 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1242	< 61.4		μg/kg wet	61.4						
Aroclor-1242 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1248	< 61.4		μg/kg wet	61.4						
Aroclor-1248 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1254	< 61.4		μg/kg wet	61.4						
Aroclor-1254 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1260	< 61.4		μg/kg wet	61.4						
Aroclor-1260 [2C]	< 61.4		μg/kg wet	61.4						
Aroclor-1262	< 61.4		μg/kg wet	61.4						
	< 61.4									
Aroclor-1262 [2C]			μg/kg wet	61.4						

alyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
tch 1328684 - SW846 3540C										
Blank (1328684-BLK1)					Pre	pared: 25-Nov	/-13 Analyzed	: 27-Nov-13		
Aroclor-1268 [2C]	< 61.4	Ц	ıg/kg wet	61.4						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	49.1				61.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	49. i 52.2	·	ig/kg wet		61.4		85	30-150 30-150		
	46.0		ig/kg wet		61.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) Surrogate: Decachlorobiphenyl (Sr) [2C]	46.0	·	ig/kg wet		61.4		75 75	30-150 30-150		
	40.0	μ	ıg/kg wet			1.05.11				
LCS (1328684-BS1)	700			00.0		pared: 25-INOV	/-13 Analyzed			
Aroclor 1016	700		ıg/kg wet	63.3	792		88	40-140		
Aroclor 1360	807	•	ıg/kg wet	63.3	792		102	40-140		
Aroclor 1260 I2Cl	627	·	ıg/kg wet	63.3 63.3	792		79 80	40-140		
Aroclor-1260 [2C]	630		ıg/kg wet	03.3	792			40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	50.7	μ	ıg/kg wet		63.3		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	50.7	•	ıg/kg wet		63.3		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	50.7	μ	ıg/kg wet		63.3		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	53.8	μ	ıg/kg wet		63.3		85	30-150		
LCS Dup (1328684-BSD1)					Pre	pared: 25-Nov	/-13 Analyzed	: 27-Nov-13		
Aroclor-1016	699	μ	ıg/kg wet	63.6	795		88	40-140	0.5	30
Aroclor-1016 [2C]	817	μ	ıg/kg wet	63.6	795		103	40-140	0.8	30
Aroclor-1260	604	μ	ıg/kg wet	63.6	795		76	40-140	4	30
Aroclor-1260 [2C]	677	μ	ıg/kg wet	63.6	795		85	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	50.9	μ	ıg/kg wet		63.6		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	54.0	μ	ıg/kg wet		63.6		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	47.7	μ	ıg/kg wet		63.6		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	60.4	μ	ıg/kg wet		63.6		95	30-150		
<u>Duplicate (1328684-DUP1)</u>		Sc	ource: SB	80903-32	Pre	pared: 25-Nov	/-13 Analyzed	: 27-Nov-13		
Aroclor-1016	< 64.7		ıg/kg dry	64.7		BRL	-			30
Aroclor-1016 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1221	< 64.7	•	ıg/kg dry	64.7		BRL				30
Aroclor-1221 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1232	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1232 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1242	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1242 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1248	236		ıg/kg dry	64.7		222			6	30
Aroclor-1248 [2C]	201		ıg/kg dry	64.7		201			0.3	30
Aroclor-1254	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1254 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1260	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1260 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1262	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1262 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1268	< 64.7		ıg/kg dry	64.7		BRL				30
Aroclor-1268 [2C]	< 64.7		ıg/kg dry	64.7		BRL				30
					617		80	20.150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	51.8		ıg/kg dry		64.7			30-150 30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	51.8 51.0		ıg/kg dry		64.7		80 80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	51.8 51.9		ıg/kg dry		64.7		80 80	30-150 20 150		
	51.8	•	ıg/kg dry		64.7	maradi OF N		30-150		
								· · / / NIOV 12		
Matrix Spike (1328684-MS1)	000		ource: SB			pared: 25-Nov				
Surrogate: Decachlorobiphenyl (Sr) [2C] Matrix Spike (1328684-MS1) Aroclor-1016 Aroclor-1016 [2C]	686 698	-	ource: SB ug/kg dry ug/kg dry	63.8 63.8	797 797	BRL BRL	86 88	40-140 40-140		

nalyte(s)	Result	Flag Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
atch 1328684 - SW846 3540C		<u> </u>							
Matrix Spike (1328684-MS1)		Source: SE	380903-32	Pre	pared: 25-Nov	v-13 Analyzed	: 27-Nov-13		
Aroclor-1260 [2C]	555	μg/kg dry	63.8	797	BRL	70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	47.8			63.8		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	47.0 51.0	µg/kg dry µg/kg dry		63.8		80	30-150 30-150		
Surrogate: Decachlorobiphenyl (Sr)	51.0	μg/kg dry		63.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	47.8	μg/kg dry		63.8		<i>75</i>	30-150		
Matrix Spike Dup (1328684-MSD1)		Source: SE	880003-33		nared: 25-Nov	v-13 Analyzed			
Aroclor-1016	712	<u>godrce. σε</u> μg/kg dry	62.5	781	BRL	91	40-140	6	30
Aroclor-1016 [2C]	725	μg/kg dry	62.5	781	BRL	93	40-140	6	30
Aroclor-1260	606	μg/kg dry	62.5	781	BRL	78	40-140	8	30
Aroclor-1260 [2C]	578	μg/kg dry	62.5	781	BRL	74	40-140	6	30
Surrogate: 4.4-DB-Octafluorobiphenyl (Sr)	46.9	μg/kg dry		62.5		75	30-150	-	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	50.0	μg/kg dry		62.5		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	53.1	μg/kg dry		62.5		85	30-150		
Surrogate: Decachiorobiphenyl (Sr) [2C]	50.0	μg/kg dry		62.5		80	30-150		
atch 1328688 - SW846 3540C	30.0	pg/ng diy		02.0		30	00 100		
				D		. 40 . A	. 07 N 40		
Blank (1328688-BLK1) Aroclor-1016	< 62.2		62.2	Pre	pared: 26-Nov	v-13 Analyzed	: 27-Nov-13		
Aroclor-1016 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1221	< 62.2	μg/kg wet	62.2						
Aroclor-1221 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1221 [20]	< 62.2	μg/kg wet μg/kg wet	62.2						
Aroclor-1232 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1242	< 62.2	μg/kg wet	62.2						
Aroclor-1242 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1248	< 62.2	μg/kg wet	62.2						
Aroclor-1248 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1254	< 62.2	μg/kg wet	62.2						
Aroclor-1254 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1260	< 62.2	μg/kg wet	62.2						
Aroclor-1260 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1262	< 62.2	μg/kg wet	62.2						
Aroclor-1262 [2C]	< 62.2	μg/kg wet	62.2						
Aroclor-1268	< 62.2	μg/kg wet	62.2						
Aroclor-1268 [2C]	< 62.2	μg/kg wet	62.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	52.8	μg/kg wet		62.2		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	56.0	μg/kg wet		62.2		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	52.8	μg/kg wet		62.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	52.8	μg/kg wet		62.2		85	30-150		
LCS (1328688-BS1)				Pre	pared: 26-Nov	v-13 Analyzed	: 27-Nov-13		
Aroclor-1016	783	μg/kg wet	60.0	750	F	104	40-140		
Aroclor-1016 [2C]	780	μg/kg wet	60.0	750		104	40-140		
Aroclor-1260	681	μg/kg wet	60.0	750		91	40-140		
Aroclor-1260 [2C]	654	μg/kg wet	60.0	750		87	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	54.0	μg/kg wet		60.0		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	57.0	μg/kg wet		60.0		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	57.0 54.0	μg/kg wet		60.0		90	30-150 30-150		
Surrogate: Decachiorobiphenyl (Sr) [2C]	54.0 51.0	μg/kg wet		60.0		85	30-150		
	31.0	pg/kg wet			nared: 26 No.	v-13 Analyzed			
LCS Dup (1328688-BSD1) Aroclor-1016	830	ualka wat	65.4	817	parcu. 20-1101	102	40-140	3	30
Aroclor-1016 [2C]	846	μg/kg wet μg/kg wet	65.4	817		102	40-140	0.4	30

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
atch 1328688 - SW846 3540C										
LCS Dup (1328688-BSD1)					Pre	pared: 26-Nov	-13 Analyzed	: 27-Nov-13		
Aroclor-1260	729		μg/kg wet	65.4	817		89	40-140	2	30
Aroclor-1260 [2C]	771		μg/kg wet	65.4	817		94	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.8		μg/kg wet		65.4		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	62.1		μg/kg wet		65.4		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	58.8		μg/kg wet		65.4		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	58.8		μg/kg wet		65.4		90	30-150		
Duplicate (1328688-DUP1)			Source: SB	80903-44	Prei	pared: 26-Nov	/-13 Analyzed	· 27-Nov-13		
Aroclor-1016	< 66.1		μg/kg dry	66.1		BRL	10 / 11101/200			30
Aroclor-1016 [2C]	< 66.1		μg/kg dry	66.1		BRL				30
Aroclor-1221	< 66.1		μg/kg dry	66.1		BRL				30
Aroclor-1221 [2C]	< 66.1		μg/kg dry	66.1		BRL				30
Aroclor-1232	< 66.1		μg/kg dry	66.1		BRL				30
Aroclor-1232 [2C]	< 66.1		μg/kg dry μg/kg dry	66.1		BRL				30
Aroclor-1242	< 66.1		μg/kg dry μg/kg dry	66.1		BRL				30
Aroclor-1242 [2C]	< 66.1		μg/kg dry μg/kg dry	66.1		BRL				30
Aroclor-1248	8060		μg/kg dry	66.1		8420			4	30
Aroclor-1248 [2C]	8890		μg/kg dry μg/kg dry	66.1		7880			12	30
Aroclor-1254	7630		μg/kg dry μg/kg dry	66.1		9690			24	30
Aroclor-1254 [2C]	9930			66.1		10700			8	30
Aroclor-1260	1030		μg/kg dry μg/kg dry	66.1		1230			17	30
Aroclor-1260 [2C]	1030			66.1		1340			25	30
Aroclor-1260 [26]	< 66.1		μg/kg dry μg/kg dry	66.1		BRL			23	30
Aroclor-1202 Aroclor-1262 [2C]	< 66.1			66.1		BRL				30
Aroclor-1268	< 66.1		μg/kg dry	66.1		BRL				30
Aroclor-1268 [2C]	< 66.1		μg/kg dry μg/kg dry	66.1		BRL				30
						DNL				
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	23.1		μg/kg dry		66.1		35	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	26.4		μg/kg dry		66.1		40	30-150		
Surrogate: Decachlorobiphenyl (Sr)	26.4		μg/kg dry		66.1		40	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	26.4		μg/kg dry		66.1		40	30-150		
Matrix Spike (1328688-MS1)			Source: SB				/-13 Analyzed			
Aroclor-1016	3410	QM1	μg/kg dry	67.2	840	BRL	406	40-140		
Aroclor-1016 [2C]	3970	QM1	μg/kg dry	67.2	840	BRL	472	40-140		
Aroclor-1260	1870		μg/kg dry	67.2	840	1230	76	40-140		
Aroclor-1260 [2C]	1890		μg/kg dry	67.2	840	1340	66	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	37.0		μg/kg dry		67.2		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	40.3		μg/kg dry		67.2		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	40.3		μg/kg dry		67.2		60	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	40.3		μg/kg dry		67.2		60	30-150		
Matrix Spike Dup (1328688-MSD1)			Source: SB	80903-44	Pre	pared: 26-Nov	-13 Analyzed	: 27-Nov-13		
Aroclor-1016	3150	QM1	μg/kg dry	67.8	848	BRL	372	40-140	9	30
Aroclor-1016 [2C]	3580	QM1	μg/kg dry	67.8	848	BRL	422	40-140	11	30
Aroclor-1260	1830		μg/kg dry	67.8	848	1230	71	40-140	7	30
Aroclor-1260 [2C]	1930		μg/kg dry	67.8	848	1340	69	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	40.7		μg/kg dry		67.8		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	44.1		μg/kg dry		67.8		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	44.1		μg/kg dry		67.8		65	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	44.1		μg/kg dry		67.8		65	30-150		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328754 - General Preparation										
<u>Duplicate (1328754-DUP1)</u>			Source: SE	80903-12	<u>Pre</u>	pared & Analy	zed: 26-Nov-13	<u>3</u>		
% Solids	91.6		%			91.7			0.1	20
Batch 1328755 - General Preparation										
<u>Duplicate (1328755-DUP1)</u>			Source: SE	80903-32	Pre	pared & Analy	zed: 26-Nov-10	<u>3</u>		
% Solids	95.9		%			96.1			0.2	20
Batch 1328756 - General Preparation										
Duplicate (1328756-DUP1)			Source: SE	80903- <u>52</u>	<u>Pre</u>	pared & Analy	zed: 26-Nov-13	<u>3</u>		
% Solids	72.6		%			73.7			2	20

Notes and Definitions

D Data reported from a dilution

GS1 Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

P Difference between the two GC columns is greater than 40%.

QM1 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

S01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration

and/or matrix interference's.

S02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic

compounds present in the sample extract.

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: June O'Connor Nicole Leja Rebecca Merz

OTRC

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TOAS Rates

Edition: September 2007 Supersede Previous Edition

CHAIN OF CUSTODY

LAB ID #.
TURNAROUND TIME

SIGNATURE INSPECTOR G.Kaczynski/M.Kostruba G.Kaczynski/M.Kostruba TYP E TIM M. M. M. M. M. M. M.	PROJECT NUMBER	R		PRO	PROJECT NAME						TURNAROUND TIME
INSPECTOR G.Kaczynski/M.Kostruba G.Kaczynski/M.Kostruba G.Kaczynski/M.Kostruba G.Kaczynski/M.Kostruba G.Kaczynski/M.Kostruba Typ E	11304.0000.0000			MDO	C-Reservoir #6 (Basin 2)	PARAMETERS		CON	NTAINERS	2	Г
C.Kaczynski/M.Kostruba C.Kaczynski/M.Kaczynski	1207.0000.0000			Wes	t Hartford, CT						
SAMPLE ID: DATE TIM E MAB SAMPLE LOCATION # of Clear Glass Matrix	IGNATURE	J	1	INSI	ECTOR	Sec continues			k)		
SAMPLE ID: DATE TIM E Marie TYP SAMPLE LOCATION EPA Marie			\	G.K	czynski/M.Kostruba	540C)	Glass	lass	2 =corl		ive
SAMPLE ID: DATE TIM E PARE OF ARA SAMPLE LOCATION AS AR				TYP		082 (35	mber (lear G	Iatrix rete, X		ervat
11/21/13 1114 X Floor – adjacent to caulk X 1 11/21/13 1112 X Floor – adjacent to caulk X 1 11/21/13 1110 X Floor – adjacent to caulk X 1 11/21/13 1108 X Floor – adjacent to caulk X 1 11/21/13 1145 X Floor – adjacent to caulk X 1 11/21/13 1145 X Wall – adjacent to caulk X 1 11/21/13 1143 X Wall – adjacent to caulk X 1 11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1		DATE	TIM			EPA 80	# of A	# of C	(X1=concr		Pres
11/21/13 1112 X Floor – adjacent to caulk X 1 11/21/13 1110 X Floor – adjacent to caulk X 1 11/21/13 1108 X Floor – adjacent to caulk X 1 11/21/13 1106 X Floor – adjacent to caulk X 1 11/21/13 1145 X Wall – adjacent to caulk X 1 11/21/13 1143 X Wall – adjacent to caulk X 1 11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	3/4-C-0"	11/21/13	1114	×	Floor – adjacent to caulk	×	-		X1		l
11/21/13 1110 X Floor – adjacent to caulk X 1 11/21/13 1108 X Floor – adjacent to caulk X 1 11/21/13 1106 X Floor – adjacent to caulk X 1 11/21/13 1145 X Wall – adjacent to caulk X 1 11/21/13 1140 X Wall – adjacent to caulk X 1 11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	3/4-C-3"	11/21/13	1112	X	Floor – adjacent to caulk	×	1		X1		
11/21/13 1108 X Floor-adjacent to caulk X 1 11/21/13 1106 X Floor-adjacent to caulk X 1 11/21/13 1145 X Wall-adjacent to caulk X 1 11/21/13 1143 X Wall-adjacent to caulk X 1 11/21/13 1140 X Wall-adjacent to caulk X 1 11/21/13 1137 X Wall-adjacent to caulk X 1 11/21/13 1135 X Wall-adjacent to caulk X 1 11/21/13 1233 X Wall-adjacent to caulk X 1	3/4-C-6"	11/21/13	1110	X	Floor – adjacent to caulk	×	_		X1		
11/21/13 1106 X Floor-adjacent to caulk X 1 11/21/13 1145 X Wall-adjacent to caulk X 1 11/21/13 1143 X Wall-adjacent to caulk X 1 11/21/13 1140 X Wall-adjacent to caulk X 1 11/21/13 1137 X Wall-adjacent to caulk X 1 11/21/13 1135 X Wall-adjacent to caulk X 1 11/21/13 1233 X Wall-adjacent to caulk X 1	3/4-C-9"	11/21/13	1108	×	-	×	1		X1		!
11/21/13 1145 X Wall – adjacent to caulk X 1 11/21/13 1143 X Wall – adjacent to caulk X 1 11/21/13 1140 X Wall – adjacent to caulk X 1 11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	3/4-C-12"	11/21/13	1106	×	-	×	_		X1	-	
11/21/13 1143 X Wall – adjacent to caulk X 1 11/21/13 1140 X Wall – adjacent to caulk X 1 11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	0-C-0"	11/21/13	1145	×	Wall – adjacent to caulk	X	1		X1		
11/21/13 1140 X Wall – adjacent to caulk X 1 11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	0-C-3"	11/21/13	1143	×	Wall – adjacent to caulk	X	1		X1		
11/21/13 1137 X Wall – adjacent to caulk X 1 11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	0-C-6"	11/21/13	1140	×	Wall – adjacent to caulk	×	_		X1		
11/21/13 1135 X Wall – adjacent to caulk X 1 11/21/13 1233 X Wall – adjacent to caulk X 1	0-C-9"	11/21/13	1137	×	Wall – adjacent to caulk	X	1		X1		
11/21/13 1233 X Wall – adjacent to caulk X 1	0-C-12"	11/21/13	1135	×	Wall – adjacent to caulk	×			X1		
	18-C-0"	11/21/13	1233	×	Wall – adjacent to caulk	X	_		X1		

RIT

Remarks: Standard QA/QC Reporting Level
Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692
Include CT DPH RCP Report

P0# C211304

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11/24/13

Gregory Kaczynski



21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692

CHAIN OF CUSTODY

Edition: September 2007 Supersede Previous Edition

SB 80903 e

FAX (860) 298-6380 PROJECT NUMBER			I Oda	PROTECT NAME						LAB ID #	#.	5
ATTOM COMPANY			MDC	MDC – Reservoir #6 (Basin 2)	PARAMETERS		CON	CONTAINERS	So	X 48-hour RUSH TAT	RUSHTAT	
211304.0000.0000			West	West Hartford, CT						Rush TAT	Date Needed:	
SIGNATURE	\		INSPI	INSPECTOR				k)				
4	0	\	G.Kac	G.Kaczynski/M.Kostruba	540C)	Glass	lass	2 =corl	ive	3		
Lab SAMPLE ID:	DATE	TIM	COMP E E	SAMPLE LOCATION	EPA 8082 (35	# of Amber (# of Clear G	Matrix (X1=concrete, X	Preservat		NOTES	
18-C-3"	11/21/13	1230	×	Wall – adjacent to caulk	×	-		X1		^	11508	2/2
18-C-6"	11/21/13	1228	×	Wall – adjacent to caulk	×			X1	-			1 2
18-C-9"	11/21/13	1226	×	Wall – adjacent to caulk	×	_		X1	-	×		- 14
18-C-12"	11/21/13	1222	×	Wall – adjacent to caulk	×	-		X1				15
16/17-C-0"	11/21/13	1347	×	Floor – adjacent to caulk	×	Н		X1			3	2),
16/17-C-3"	11/21/13	1345	×	Floor – adjacent to caulk	X	1		X1				11
16/17-C-6"	11/21/13	1343	X	Floor – adjacent to caulk	X	1		X1				31
16/17-C-9"	11/21/13	1340	×	Floor – adjacent to caulk	X	1		X1	1	231	1/12 1	2/9
16/17-C-12"	11/21/13	1338	×	Floor – adjacent to caulk	X	1		X1		1, VV	-	20
16-C-0"	11/21/13	1418	×	Column – adjacent to cork	X	1		X1		1 ///	K1152114	121
16-C-3"	11/21/13	1415	×	Column – adjacent to cork	X	-		X1		(//	22 /
Relinquished by: (Signature)	œ)	Date		Received by: (Signature)	Relinguished by: (Signa	d by: (S	ignature)	(e)		Date: Rece	Received by: (Signature)	
9	1	11/	11/24/13	(C)		W		V	1	NAIZ (S	,
(Printed)	1	Time:	2.2	(Printed)	(Printed)		,	€ ^{11200m}		ime: 15 (Prin	Printed)	
Gregory Kaczynski			1640	しめのまた		2	4		1	OK OK	6	

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Remarks: Standard QA/QC Reporting Level
Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692
Include CT DPH RCP Report

Condition upon Receipt:

Page 2 of 8 6 (175)13

P0# C211304

WINDSOR, CONNECTICUT 06095 21 GRIFFIN ROAD NORTH

TELEPHONE (860) 298-9692

CHAIN OF CUSTODY

Supersede Previous Edition Edition: September 2007

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FAX	FAX (860) 298-6380										LAB ID #.		
PRC	PROJECT NUMBER	R		PROJ	PROJECT NAME						TURN	TURNAROUND TIME	Į.
2113	211304 0000 0000			MDC	MDC - Reservoir #6 (Basin 2)	PARAMETERS		CO	CONTAINERS	<u> </u>	X 48-hour RUSH TAT	TAT	
£1.10	04.0000.0000			West	West Hartford, CT						Rush TAT	Date Needed:	
SIG	SIGNATURE	1	1	INSPE	INSPECTOR				k)		is a		
0				G.Kac	G.Kaczynski/M.Kostruba	540C)	Glass	lass	2 =corl	ive			
		a a		E		982 (35	nber (lear G	Iatrix ete, X	ervat		NOTES	
Lab ID:	SAMPLE ID:	DATE	TIM	COMP GRAB	SAMPLE LOCATION	EPA 80	# of Aı	# of C	(X1=concr	Pres			
	16-C-6"	11/21/13	1413	×	Column – adjacent to cork	×	_		X1	1		20208	-23
	16-C-9"	11/21/13	1410	X	Column – adjacent to cork	×	1		X1				124
	16-C-12"	11/21/13	1407	×	Column – adjacent to cork	×	_		X1		8		2
	5-C-0"	11/22/13	0845	×	Column – adjacent to cork	X			X1		,		-26
	5-C-3"	11/22/13	0842	×	Column – adjacent to cork	X	1		X1			20	12,
	5-C-6"	11/22/13	0839	×	Column – adjacent to cork	X			X1		5		25
	5-C-9"	11/22/13	0836	X	Column – adjacent to cork	X	1		XI		122	162 0	77,6
	5-C-12"	11/22/13	0834	×	Column - adjacent to cork	×	1		X1		AURI	1	05/20
	5-C-3"D	11/22/13	0900	×	Column – adjacent to cork (2-2.5" deep)	×	_		X1		11 1101	125/13	(3)
	5-C-6"D	11/22/13	0910	×	Column – adjacent to cork (2-2.5" deep)	Х			XI	-		<u> </u>	782
	ε											(

Remarks: Standard QA/QC Reporting Level
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P0# C211304

Gregory Kaczynski

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Page 3 of 8

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11/24/13

TRC

21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692 FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007 Supersede Previous Edition

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SS 80913 e

LAB ID #.

							MALAND AND ITO		
PROJECT NUMBER	PR	PROJECT NAME					TURNA	TURNAROUND TIME	
211304 0000 0000	M	MDC – Reservoir #6 (Basin 2)	PARAMETERS	_	CONTAINERS	σ ₂	X 48-hour RUSH TAT	AT _	
211304.0000.0000	W	West Hartford, CT					Rush TAT	Date Needed:	
SIGNATURE	IN	INSPECTOR			·k)				
	G.J	G.Kaczynski/M.Kostruba	40C)			ive			
	TYP	Б	082 (35		lear G	ervat		NOTES	
Lab SAMPLEID: DATE T	COMP	GRAB SAMPLE LOCATION	EPA 80	# of Aı	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Pres			
3/4-I-0" 11/22/13 0	0940	X Floor – adjacent to tar	×	-	X1			50208	2
3/4-1-3" 11/22/13 0	0937	X Floor – adjacent to tar	×	1	X1	!			77
3/4-I-6" 11/22/13 0	0934	X Floor – adjacent to tar	×	1	X1		×		35
9-J-0" 11/22/13 1	1010	X Wall – adjacent to tar	×	1	X1			•	36
9-J-3" 11/22/13 1	1007	X Wall – adjacent to tar	×	1	X1			,	37
9-J-6" 11/22/13 1	1003	X Wall – adjacent to tar	×	1	X1		,		8
9-J-3"D 11/22/13 1	1029	X Wall – adjacent to tar (2-2.5" deep)	×	1	X1	l	HSE	113 R 62	35
9-J-6"D 11/22/13 1	1025	X Wall – adjacent to tar (2-2.5" deep)	X	1	X1 v	1	OR 1/1	135/13	40
7/8-W/A-0" 11/22/13 1	1115	X Floor – adjacent to tar	×	1	X1		is .		デ
7/8-W/A-3" 11/22/13 1	1111	X Floor – adjacent to tar	X	1	X1				27
Relinquished by: (Signature)	Date:	Received by (Signature)	Relinguishe	d hv. (S.	ionature)		1	led hv. (Sionature)	
remidustion by (Signature)	Date:	Received by: (Signature)	Kelinquisned by: (Signature)	a by: (5	ignature)		Date/36/13 Receive	Received by: (Signature)	

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Remarks: Standard QA/QC Reporting Level
Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692
Include CT DPH RCP Report

P0# C211304

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Time:

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Time:

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Condition upon Receipt:

Page 4 of 844

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11/24/13

Gregory Kaczynski

TRC

21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692 FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007 Supersede Previous Edition

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SB 86505

PROJECT NUMBER PROJECT NAME PR
RECT NUMBER PROJECT NAME PROJECT NAME MDC Reservoir #6 (Basin 2) West Hardford, CT West Hardford, CT West Hardford, CT NAME
Time PROJECT NAME TLAB ID #. TLAB ID
NOTES NOTES NOTES NOTES NOTES
CONTAINERS CON
Time: CONTAINERS CONTAINERS TURNAROUND TIME TURNAROUND T
Time: CONTAINERS
AINERS AINERS Matrix (X1=concrete, X2 =cork) X
AINERS AINERS Matrix (X1=concrete, X2 =cork) X
AINERS AINERS Matrix (X1=concrete, X2 =cork) X
TURNAROUND TIME X 48-hour RUSH TAT Rush TAT Date Needed: NOTES NOTES Preservative NOTES Received by: (Signature) Printed)
TURNAROUND TIME RUSH TAT AT Date Needed: NOTES NOTES Received by: (Signature) (Printed)
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TOTAL ROOM

Remarks: Standard QA/QC Reporting Level
Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692
Include CT DPH RCP Report

Condition upon Receipt:

Page 5 of 8 6

P0# C211304

Gregory Kaczynski

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WINDSOR, CONNECTICUT 06095 21 GRIFFIN ROAD NORTH

CHAIN OF CUSTODY

Supersede Previous Edition Edition: September 2007

18-C-CK 11/22/13 1100	0/1-C-12" 11/22/13 1404	Lab SAMPLE ID: DATE TIM E	SIGNATURE		211304 0000 0000	PROJECT NUMBER	TELEPHONE (860) 298-9692 FAX (860) 298-6380
X Cork from wall (9" deep)	X Ceiling – adjacent to cork	COMP GRAB SAMPLE LOCATION	INSPECTOR G.Kaczynski/M.Kostruba	West Hartford, CT	MDC - Reservoir #6 (Basin 2)	PROJECT NAME	
×	X	EPA 8082 (3	3540C)		PARAMETERS		
_	-						
X2	X1	Matri	X.		CONTAINER		
		Preserva	itive		S		
What remains – depth to which ESI / S3 removed cork on wall	25, VI50B	NOTES		Rush TAT Date Needed:	X 48-hour RUSH TAT	TURNAROUND TIME	LAB ID #.
	11/22/13 1100 X Cork from wall (9" deep) X 1 X2 1	11/22/13 1404 X Ceiling – adjacent to cork X 1 X1 11/22/13 1100 X Cork from wall (9" deep) X 1 X2 1	SAMPLEID: DATE TIM E O/1-C-12" 11/22/13 1404 X Ceiling – adjacent to cork 18-C-CK 11/22/13 1100 X Cork from wall (9" deep) X 1	G.Kaczynski/M.Kostruba TYP E TIM COMP GRAB SAMPLE LOCATION EPA 8082 (3540C) X Cork from wall (9" deep) X 11/22/13 1100 X Cork from wall (9" deep) X 1	DATE TIM COMP GRAB SAMPLE LOCATION 11/22/13 1404	MDC - Reservoir #6 (Basin 2) West Hartford, CT INSPECTOR G.Kaczynski/M.Kostruba TYP E COMP B SAMPLE LOCATION EPA 8082 (3540C) EPA 8082 (3540C) # of Clear Glass Matrix (X1=concrete, X2 = cork) Preservative Preservative	PROJECT NAME MDC - Reservoir #6 (Basin 2) West Hartford, CT INSPECTOR G.Kaczynski/M.Kostruba TYP E OMAB CORAB SAMPLE LOCATION EPA 8082 (3540C) # of Amber Glass # of Clear Glass # of Clear Glass (X1=concrete, X2 = cork) Preservative 1/22/13 1100 X Cork from wall (9" deep) X 1 X2

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	P0# C211304	Include CT DPH RCP Report	Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692	Remarks: Standard QA/QC Reporting Level	Gregory Kaczynski	(Printed)	9	Relinquished by: (Signature)
	-	port	n@TRCsolutio	ing Level	1640	Time:	11/24/13	Date:
***		, , , , , , , , , , , , , , , , , , , ,	ons.com) (860) 298-9692		1. KINA	(Printed)		Received by: (Signature)
			91		1. Bishar	(Printed)	(CH)	Relinquished by: (Signature)
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	100	Page 6 of	,				Z	Received by: (Signature)

Report Date: 02-Dec-13 15:19



☑ Final Report☐ Re-Issued Report☐ Revised Report

Featuring HANIBAL TECHNOLOGY

Laboratory Report

TRC

Attn: Erik Plimpton

21 Griffin Road North Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT

Windsor, CT 06095 Project #: 211304.0000.0000

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
SB80904-01	01	Caulk	21-Nov-13 10:10	25-Nov-13 16:35
SB80904-02	02	Caulk	21-Nov-13 10:45	25-Nov-13 16:35
SB80904-03	03	Caulk	21-Nov-13 09:50	25-Nov-13 16:35
SB80904-04	04	Cork	21-Nov-13 10:12	25-Nov-13 16:35
SB80904-05	05	Cork	21-Nov-13 10:20	25-Nov-13 16:35
SB80904-06	06	Cork	21-Nov-13 09:45	25-Nov-13 16:35
SB80904-07	07	Tar	21-Nov-13 13:15	25-Nov-13 16:35
SB80904-08	08	Tar	21-Nov-13 13:20	25-Nov-13 16:35
SB80904-09	09	Tar	21-Nov-13 13:25	25-Nov-13 16:35
SB80904-10	10	Cork	21-Nov-13 12:10	25-Nov-13 16:35
SB80904-11	11	Cork	21-Nov-13 12:12	25-Nov-13 16:35
SB80904-12	12	Cork	21-Nov-13 12:15	25-Nov-13 16:35
SB80904-13	13	Cork	21-Nov-13 12:20	25-Nov-13 16:35
SB80904-14	14	Cork	22-Nov-13 08:40	25-Nov-13 16:35
SB80904-15	15	Cork	22-Nov-13 08:42	25-Nov-13 16:35
SB80904-16	16	Cork	22-Nov-13 08:45	25-Nov-13 16:35
SB80904-17	17	Cork	22-Nov-13 08:55	25-Nov-13 16:35
SB80904-18	18	Cork	22-Nov-13 08:58	25-Nov-13 16:35
SB80904-19	19	Cork	22-Nov-13 09:02	25-Nov-13 16:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Nicole Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols Laboratory Analysis QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 2)-West Project Number: 211304.0000.0000

Hartford, CT Sampling Date(s):

Laboratory Sample ID(s):

11/21/2013 through 11/22/2013

SB80904-01 through SB80904-19

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓	Yes	No	
1A	Were the method specified preservation and holding time requirements met?	✓	Yes	No	,
1B	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?		Yes	No	,
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	~	Yes	No	
3	Were samples received at an appropriate temperature?	✓	Yes	No	1
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?		Yes	✓ No	-
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?		Yes Yes	✓ No No	
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	√	Yes	No	,
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓	Yes	No	,

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja Laboratory Director

Micole Leja

Date: 12/2/2013

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Duplicates:

1328689-DUP1 Source: SB80904-11

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

Samples:

SB80904-01 01

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-02

02

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

This laboratory report is not valid without an authorized signature on the cover page.

SW846 8082A

Samples:

SB80904-02

02

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-03

03

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-04

04

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-05

05

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-06

06

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-08

08

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

This laboratory report is not valid without an authorized signature on the cover page.

SW846 8082A

Samples:

SB80904-12 12

Difference between the two GC columns is greater than 40%.

Aroclor-1254

SB80904-14 14

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80904-17 17

Elevated Reporting Limits due to limited sample volume.

SB80904-18 18

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-19 19

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	TRC - Windsor, CT			
Project:	MDC - Reservoir #6 (Basin 2)-West Hartford, CT / 211304.0000.0000			
Work Order:	SB80904			
Sample(s) received on:	11/25/2013			
Received by:	Vickie Knowles			
The following outlines th	he condition of samples for the attached Chain of Custody upon receipt.			
4. Were samples co5. Were samples re	als intact? Exceived at a temperature of $\leq 6^{\circ}$ C? Soled on ice upon transfer to laboratory representative? Efrigerated upon transfer to laboratory representative?	<u>Yes</u> □ □ □ □ □ □	<u>No</u> ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<u>N/A</u>
7. Were samples pr	roperly labeled (labels affixed to sample containers and include sample ID, site project number and the collection date)?			
8. Were samples ac9. Does Chain of C	companied by a Chain of Custody document? Custody document include proper, full, and complete documentation, which shall D, site location, and/or project number, date and time of collection, collector's name,			
preservation type	e, sample matrix and any special remarks concerning the sample?			
•	ainer labels agree with Chain of Custody document?			
 Were samples re 	eceived within method-specific holding times?	\checkmark	Ш	Ш

Sample Id 01 SB80904-	dentification			Client P 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Caulk		ection Date -Nov-13 10			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
<u>Polychlorina</u>	ile Organic Compounds by C ted Biphenyls by method SW846 3540C	GC	GS1										
12674-11-2	Aroclor-1016	< 2190000	D	μg/kg dry	2190000	1630000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 2190000	D	μg/kg dry	2190000	1970000	10000				"		Χ
11141-16-5	Aroclor-1232	< 2190000	D	μg/kg dry	2190000	1400000	10000				"		Χ
53469-21-9	Aroclor-1242	< 2190000	D	μg/kg dry	2190000	1310000	10000				"		Χ
12672-29-6	Aroclor-1248	26,400,000	D	μg/kg dry	2190000	1140000	10000				"		Χ
11097-69-1	Aroclor-1254	114,000,000	D	μg/kg dry	2190000	1820000	10000				"		Χ
11096-82-5	Aroclor-1260 [2C]	98,900,000	D	μg/kg dry	2190000	1090000	10000				"		Χ
37324-23-5	Aroclor-1262	< 2190000	D	μg/kg dry	2190000	2040000	10000				"		Χ
11100-14-4	Aroclor-1268	< 2190000	D	μg/kg dry	2190000	901000	10000				"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl	0	S01		30-150	0 %					"		

30-150 %

30-150 %

SM2540 G Mod.

26-Nov-13

26-Nov-13

DT

1328756

(Sr)

[2C]
General Chemistry Parameters
% Solids

(Sr) [2C]

4,4-DB-Octafluorobiphenyl

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

0

0

0

81.3

S01

S01

S01

10386-84-2

2051-24-3

2051-24-3

Sample Io 02 SB80904	dentification -02			<u>Client P</u> 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Caulk		ection Date -Nov-13 10			veived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds	by GC											
	ted Biphenyls by method SW846 35	<u>40C</u>	GS1										
12674-11-2	Aroclor-1016	< 2900000	D	μg/kg dry	2900000	2170000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 2900000	D	μg/kg dry	2900000	2610000	10000	II .		н	"		Χ
11141-16-5	Aroclor-1232	< 2900000	D	μg/kg dry	2900000	1860000	10000	ı		н	"		Х
53469-21-9	Aroclor-1242	< 2900000	D	μg/kg dry	2900000	1750000	10000	ı		н	"		Х
12672-29-6	Aroclor-1248	< 2900000	D	μg/kg dry	2900000	1510000	10000	ı		н	"		Х
11097-69-1	Aroclor-1254	110,000,000	D	μg/kg dry	2900000	2420000	10000	ı		н	"		Х
11096-82-5	Aroclor-1260	11,600,000	D	μg/kg dry	2900000	1800000	10000				"		Х
37324-23-5	Aroclor-1262	< 2900000	D	μg/kg dry	2900000	2700000	10000				"		Х
11100-14-4	Aroclor-1268	< 2900000	D	μg/kg dry	2900000	1200000	10000						Х

30-150 %

30-150 %

30-150 %

SM2540 G Mod.

26-Nov-13

DT

26-Nov-13

1328756

10386-84-2

10386-84-2

2051-24-3

2051-24-3

(Sr)

[2C]
General Chemistry Parameters
% Solids

(Sr) [2C]

4,4-DB-Octafluorobiphenyl

4,4-DB-Octafluorobiphenyl

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

0

0

0

59.5

S01

S01

S01

S01

04 SB80904	dentification -04			Client P 211304.0			<u>Matrix</u> Cork	-	ection Date -Nov-13 10			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 27100	D	μg/kg dry	27100	20200	100	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 27100	D	μg/kg dry	27100	24400	100						Χ
11141-16-5	Aroclor-1232	< 27100	D	μg/kg dry	27100	17400	100			п	"		Х
53469-21-9	Aroclor-1242	< 27100	D	μg/kg dry	27100	16300	100	II .		н			Χ
12672-29-6	Aroclor-1248	417,000	D	μg/kg dry	27100	14100	100				"		Χ
11097-69-1	Aroclor-1254 [2C]	1,080,000	D	μg/kg dry	27100	15900	100						Χ
11096-82-5	Aroclor-1260 [2C]	462,000	D	μg/kg dry	27100	13600	100						Χ
37324-23-5	Aroclor-1262	< 27100	D	μg/kg dry	27100	25200	100	II .		н			Χ
11100-14-4	Aroclor-1268	< 27100	D	μg/kg dry	27100	11200	100	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01	30-150 %				п		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl	0	S01		30-15	i0 %					"		

30-150 %

SM2540 G Mod.

DT

26-Nov-13 26-Nov-13

1328756

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

2051-24-3

2051-24-3

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

0

0

22.5

S01

S01

Sample Id 05 SB80904	dentification			Client P 211304.0	Project # 000.0000		<u>Matrix</u> Cork		ection Date -Nov-13 10			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 357000	D	μg/kg dry	357000	266000	1000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 357000	D	μg/kg dry	357000	321000	1000			н	"		Χ
11141-16-5	Aroclor-1232	< 357000	D	μg/kg dry	357000	229000	1000			н	"		Χ
53469-21-9	Aroclor-1242	< 357000	D	μg/kg dry	357000	215000	1000			н	"		Χ
12672-29-6	Aroclor-1248	< 357000	D	μg/kg dry	357000	186000	1000			н	"		Χ
11097-69-1	Aroclor-1254	12,500,000	D	μg/kg dry	357000	297000	1000			н	"		Χ
11096-82-5	Aroclor-1260	1,160,000	D	μg/kg dry	357000	221000	1000				"		Χ
37324-23-5	Aroclor-1262	< 357000	D	μg/kg dry	357000	332000	1000				"		Χ
11100-14-4	Aroclor-1268	< 357000	D	μg/kg dry	357000	147000	1000				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl	0	S01		30-150) %		п			"		

30-150 %

30-150 %

SM2540 G Mod.

DT

26-Nov-13 26-Nov-13

1328756

10386-84-2

2051-24-3

2051-24-3

4,4-DB-Octafluorobiphenyl

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

0

0

0

26.7

S01

S01

S01

Sample Id 06 SB80904	lentification			Client P 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Cork		ection DateNov-13 09			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 1760000	D	μg/kg dry	1760000	1320000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	Χ
11104-28-2	Aroclor-1221	< 1760000	D	μg/kg dry	1760000	1590000	10000	п		п	"		Χ
11141-16-5	Aroclor-1232	< 1760000	D	μg/kg dry	1760000	1130000	10000			п			Χ
53469-21-9	Aroclor-1242	< 1760000	D	μg/kg dry	1760000	1060000	10000			п			Χ
12672-29-6	Aroclor-1248	58,300,000	D	μg/kg dry	1760000	916000	10000				"		Χ
11097-69-1	Aroclor-1254 [2C]	44,500,000	D	μg/kg dry	1760000	1030000	10000				"		Χ
11096-82-5	Aroclor-1260 [2C]	2,730,000	D	μg/kg dry	1760000	881000	10000			п	"		Χ
37324-23-5	Aroclor-1262	< 1760000	D	μg/kg dry	1760000	1640000	10000			п	"		Х
11100-14-4	Aroclor-1268	< 1760000	D	μg/kg dry	1760000	726000	10000				"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %					"		
General C	hemistry Parameters												

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DT

1328756

% Solids

Sample Io 07 SB80904	dentification			Client P 211304.0			<u>Matrix</u> Tar	·	ection Date -Nov-13 13			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 158		μg/kg dry	158	118	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 158		μg/kg dry	158	142	1				"		Χ
11141-16-5	Aroclor-1232	< 158		μg/kg dry	158	101	1	н			"		Χ
53469-21-9	Aroclor-1242	< 158		μg/kg dry	158	94.9	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	12,500		μg/kg dry	158	69.2	1				"		Χ
11097-69-1	Aroclor-1254	< 158		μg/kg dry	158	131	1				"		Χ
11096-82-5	Aroclor-1260	1,700		μg/kg dry	158	97.8	1	п			"		Χ
37324-23-5	Aroclor-1262	< 158		μg/kg dry	158	147	1	п			"		Χ
11100-14-4	Aroclor-1268	< 158		μg/kg dry	158	65.1	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-15	0 %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-15	0 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	120			30-15	i0 %		II .			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-15	50 %		11		ı	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 8680	D	μg/kg dry	8680	6490	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 8680	D	μg/kg dry	8680	7830	10						Χ
11141-16-5	Aroclor-1232	< 8680	D	μg/kg dry	8680	5580	10	п		н	•		Χ
53469-21-9	Aroclor-1242	< 8680	D	μg/kg dry	8680	5220	10	п		н	•		Χ
12672-29-6	Aroclor-1248 [2C]	159,000	D	μg/kg dry	8680	3810	10			п	"		Х
11097-69-1	Aroclor-1254	173,000	D	μg/kg dry	8680	7240	10			п	"		Х
11096-82-5	Aroclor-1260	19,100	D	μg/kg dry	8680	5380	10			п	"		Х
37324-23-5	Aroclor-1262	< 8680	D	μg/kg dry	8680	8090	10			п	"		Х
11100-14-4	Aroclor-1268	< 8680	D	μg/kg dry	8680	3580	10	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-15	0 %		и	н		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-15	0 %		п			"		
General C	Chemistry Parameters												
	% Solids	39.7		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	

Received

25-Nov-13

Sample Io 09 SB80904	dentification			Client P 211304.0			<u>Matrix</u> Tar		ection Date -Nov-13 13			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 1100		μg/kg dry	1100	823	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 1100		μg/kg dry	1100	992	1	п		n	"		Χ
11141-16-5	Aroclor-1232	< 1100		μg/kg dry	1100	707	1			u	"		Χ
53469-21-9	Aroclor-1242	< 1100		μg/kg dry	1100	662	1			u	"		Χ
12672-29-6	Aroclor-1248	5,120		μg/kg dry	1100	573	1	п		n	"		Χ
11097-69-1	Aroclor-1254	< 1100		μg/kg dry	1100	918	1	п		n	"		Χ
11096-82-5	Aroclor-1260	< 1100		μg/kg dry	1100	683	1			u	"		Χ
37324-23-5	Aroclor-1262	< 1100		μg/kg dry	1100	1030	1			u	"		Χ
11100-14-4	Aroclor-1268	< 1100		μg/kg dry	1100	454	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	50 %		п		и	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-15	50 %		п		и	"		
2051-24-3	Decachlorobiphenyl (Sr)	90			30-15	50 %				ıı	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		п		н	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

Sample Io 10 SB80904	dentification			Client P 211304.0			<u>Matrix</u> Cork	· · · · · · · · · · · · · · · · · · ·	ection Date -Nov-13 12			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 305		μg/kg dry	305	228	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 305		μg/kg dry	305	275	1	н			"		Χ
11141-16-5	Aroclor-1232	< 305		μg/kg dry	305	196	1				"		Χ
53469-21-9	Aroclor-1242	< 305		μg/kg dry	305	183	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	6,100		μg/kg dry	305	134	1				"		Χ
11097-69-1	Aroclor-1254	7,030		μg/kg dry	305	254	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	1,740		μg/kg dry	305	153	1	п			"		Χ
37324-23-5	Aroclor-1262	< 305		μg/kg dry	305	284	1	п			"		Х
11100-14-4	Aroclor-1268	< 305		μg/kg dry	305	126	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		п		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		и		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	125			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	135			30-15	0 %			•	н	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

Sample Id 11 SB80904	dentification			<u>Client P</u> 211304.0			<u>Matrix</u> Cork		ection Date -Nov-13 12	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 307		μg/kg dry	307	229	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 307		μg/kg dry	307	276	1			п	"		Χ
11141-16-5	Aroclor-1232	< 307		μg/kg dry	307	197	1				"		Χ
53469-21-9	Aroclor-1242	< 307		μg/kg dry	307	185	1			u	"		Χ
12672-29-6	Aroclor-1248	< 307		μg/kg dry	307	160	1	н			"		Χ
11097-69-1	Aroclor-1254	< 307		μg/kg dry	307	256	1	н			•		Χ
11096-82-5	Aroclor-1260	399		μg/kg dry	307	190	1	п		ıı	•		Χ
37324-23-5	Aroclor-1262	< 307		μg/kg dry	307	286	1	п		ıı	•		Χ
11100-14-4	Aroclor-1268	< 307		μg/kg dry	307	127	1	п		н	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	i0 %		II .		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %				н	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

Sample Io 12 SB80904	dentification			Client P 211304.0			<u>Matrix</u> Cork		ection Date -Nov-13 12			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
	tted Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 318		μg/kg dry	318	237	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 318		μg/kg dry	318	286	1	п			"		Χ
11141-16-5	Aroclor-1232	< 318		μg/kg dry	318	204	1				"		Χ
53469-21-9	Aroclor-1242	< 318		μg/kg dry	318	191	1				"		Χ
12672-29-6	Aroclor-1248	< 318		μg/kg dry	318	165	1				"		Χ
11097-69-1	Aroclor-1254	778	Р	μg/kg dry	318	265	1				"		Χ
11096-82-5	Aroclor-1260	< 318		μg/kg dry	318	197	1	II .		п	"		Χ
37324-23-5	Aroclor-1262	< 318		μg/kg dry	318	296	1				"		Χ
11100-14-4	Aroclor-1268	< 318		μg/kg dry	318	131	1				"		Χ
Surrogate red	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-15	60 %					"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	60 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	65			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %					"		

26-Nov-13 26-Nov-13

DT

1328756

General Chemistry Parameters % Solids

Sample Io 13 SB80904	dentification			<u>Client P</u> 211304.0			<u>Matrix</u> Cork		ection Date -Nov-13 12	,		ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 335		μg/kg dry	335	250	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 335		μg/kg dry	335	301	1	п		II .	"		Χ
11141-16-5	Aroclor-1232	< 335		μg/kg dry	335	215	1			u	"		Χ
53469-21-9	Aroclor-1242	< 335		μg/kg dry	335	201	1	н			"		Χ
12672-29-6	Aroclor-1248	1,760		μg/kg dry	335	174	1	н			"		Χ
11097-69-1	Aroclor-1254	< 335		μg/kg dry	335	279	1	п		ıı	"		Χ
11096-82-5	Aroclor-1260	< 335		μg/kg dry	335	207	1			и	"		Χ
37324-23-5	Aroclor-1262	< 335		μg/kg dry	335	312	1			и	"		Χ
11100-14-4	Aroclor-1268	< 335		μg/kg dry	335	138	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr)	90			30-15	i0 %		II .		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %				н	"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

Sample Id 14 SB80904	dentification			<u>Client P</u> 211304.0			<u>Matrix</u> Cork		ection Date 2-Nov-13 08			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 3340	D	μg/kg dry	3340	2490	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Х
11104-28-2	Aroclor-1221	< 3340	D	μg/kg dry	3340	3010	10				•		Х
11141-16-5	Aroclor-1232	< 3340	D	μg/kg dry	3340	2140	10	п			•		Χ
53469-21-9	Aroclor-1242	< 3340	D	μg/kg dry	3340	2010	10				"		Х
12672-29-6	Aroclor-1248 [2C]	209,000	D	μg/kg dry	3340	1460	10				"		Х
11097-69-1	Aroclor-1254 [2C]	208,000	D	μg/kg dry	3340	1950	10						Х
11096-82-5	Aroclor-1260	13,300	D	μg/kg dry	3340	2070	10	п					Χ
37324-23-5	Aroclor-1262	< 3340	D	μg/kg dry	3340	3110	10	п					Χ
11100-14-4	Aroclor-1268	< 3340	D	μg/kg dry	3340	1380	10	п		"	·		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	50 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl	100			30-15	0 %		n .		n	"		

30-150 %

SM2540 G Mod.

DT

26-Nov-13 26-Nov-13

1328756

(Sr) [2C]

[2C]
General Chemistry Parameters
% Solids

2051-24-3

2051-24-3

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

100

100

Sample Io 15 SB80904	-15			<u>Client P</u> 211304.0	<u>roject #</u> 000.0000		<u>Matrix</u> Cork	-	ection Date -Nov-13 08			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 236		μg/kg dry	236	176	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 236		μg/kg dry	236	212	1				"		Χ
11141-16-5	Aroclor-1232	< 236		μg/kg dry	236	151	1	н		"	"		Χ
53469-21-9	Aroclor-1242	< 236		μg/kg dry	236	142	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	6,720		μg/kg dry	236	103	1	ı			"		Х
11097-69-1	Aroclor-1254	13,400		μg/kg dry	236	196	1	ı			"		Х
11096-82-5	Aroclor-1260	5,050		μg/kg dry	236	146	1	п			"		Х
37324-23-5	Aroclor-1262	< 236		μg/kg dry	236	219	1	п			"		Х
11100-14-4	Aroclor-1268	< 236		μg/kg dry	236	97.2	1				"		Χ
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	50 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		II			"		
General C	Chemistry Parameters												

26-Nov-13 26-Nov-13

DT

1328756

% Solids

Sample I 16 SB80904	dentification 4-16			<u>Client P</u> 211304.0	Project # 000.0000		<u>Matrix</u> Cork	·	ection Date -Nov-13 08			ceived Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
	ated Biphenyls I by method SW846 3540C												
12674-11-2	Aroclor-1016	< 222		/I.en. ele.	000	400		0)4/0.40.0000.4	05 Nov. 40	07 Nov. 40	IMR	1000000	V
				μg/kg dry	222	166	1	SW846 8082A	25-Nov-13	27-Nov-13	IIVIFC	1328689	X
11104-28-2	Aroclor-1221	< 222		μg/kg dry	222	200	1						Х
11141-16-5	Aroclor-1232	< 222		μg/kg dry	222	142	1						Х
53469-21-9	Aroclor-1242	< 222		μg/kg dry	222	133	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	4,510		μg/kg dry	222	97.4	1			"	"		Χ
11097-69-1	Aroclor-1254	3,710		μg/kg dry	222	185	1	II .			"		Χ
11096-82-5	Aroclor-1260 [2C]	1,860		μg/kg dry	222	111	1				"		Χ
37324-23-5	Aroclor-1262	< 222		μg/kg dry	222	207	1				"		Χ
11100-14-4	Aroclor-1268	< 222		μg/kg dry	222	91.5	1	п			"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		н		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	90			30-15	0 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	0 %		н		п	"		
General (Chemistry Parameters												
	% Solids	25.7		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	

<u>3ampie id</u> 1 7 SB80904	-17			Client P 211304.0			<u>Matrix</u> Cork		ection Date -Nov-13 08			Nov-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	tted Biphenyls by method SW846 3540C		R02										
12674-11-2	Aroclor-1016	< 806		μg/kg dry	806	602	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Х
11104-28-2	Aroclor-1221	< 806		μg/kg dry	806	726	1	и			"		Χ
11141-16-5	Aroclor-1232	< 806		μg/kg dry	806	517	1	ı			"		Х
53469-21-9	Aroclor-1242	< 806		μg/kg dry	806	485	1	п			"		Χ
12672-29-6	Aroclor-1248 [2C]	72,200		μg/kg dry	806	354	1	II .		п	"		Χ
11097-69-1	Aroclor-1254	< 806		μg/kg dry	806	671	1	II .		п	"		Χ
11096-82-5	Aroclor-1260	2,180		μg/kg dry	806	499	1			п	"		Χ
37324-23-5	Aroclor-1262	< 806		μg/kg dry	806	750	1				"		Х
11100-14-4	Aroclor-1268	< 806		μg/kg dry	806	332	1	п			"		Χ
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150	0 %		as .			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150	0 %					"		

SM2540 G Mod.

26-Nov-13 26-Nov-13

DT

1328756

2051-24-3

Decachlorobiphenyl (Sr)

[2C]
General Chemistry Parameters
% Solids

100

Client Project # 211304.0000.0000

Matrix Cork Collection Date/Time 22-Nov-13 08:58 Received 25-Nov-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cer
Semivolati	ile Organic Compounds by C	ЭC											
Polychlorina	ated Biphenyls		GS1										
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 33400	D	μg/kg dry	33400	25000	100	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Х
11104-28-2	Aroclor-1221	< 33400	D	μg/kg dry	33400	30100	100	п			"		Χ
11141-16-5	Aroclor-1232	< 33400	D	μg/kg dry	33400	21500	100				"		Χ
53469-21-9	Aroclor-1242	< 33400	D	μg/kg dry	33400	20100	100	н			"		Х
12672-29-6	Aroclor-1248	346,000	D	μg/kg dry	33400	17400	100				"		Х
11097-69-1	Aroclor-1254 [2C]	787,000	D	μg/kg dry	33400	19600	100				"		Х
11096-82-5	Aroclor-1260	627,000	D	μg/kg dry	33400	20700	100	п			"		Х
37324-23-5	Aroclor-1262	< 33400	D	μg/kg dry	33400	31100	100	п			"		Х
11100-14-4	Aroclor-1268	< 33400	D	μg/kg dry	33400	13800	100				"		Х
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %					"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		п	н	н	"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		п		н	"		
General C	Chemistry Parameters												
	% Solids	29.8		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328757	

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls		GS1										
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 6900	D	μg/kg dry	6900	5160	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	Χ
11104-28-2	Aroclor-1221	< 6900	D	μg/kg dry	6900	6220	10				"		Χ
11141-16-5	Aroclor-1232	< 6900	D	μg/kg dry	6900	4430	10	н			"		Χ
53469-21-9	Aroclor-1242	< 6900	D	μg/kg dry	6900	4150	10	н			"		Χ
12672-29-6	Aroclor-1248 [2C]	317,000	D	μg/kg dry	6900	3030	10	н			"		Χ
11097-69-1	Aroclor-1254 [2C]	294,000	D	μg/kg dry	6900	4040	10	н			"		Χ
11096-82-5	Aroclor-1260 [2C]	145,000	D	μg/kg dry	6900	3450	10						Х
37324-23-5	Aroclor-1262	< 6900	D	μg/kg dry	6900	6430	10						Х
11100-14-4	Aroclor-1268	< 6900	D	μg/kg dry	6900	2850	10				"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		ı	•	н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-15	0 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	0 %		н		п	"		
General C	hemistry Parameters												
	% Solids	26.4		%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328757	

Semivolatile Organic Compounds by GC - Quality Control

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
atch 1328688 - SW846 3540C										
Blank (1328688-BLK1)					Pre	pared: 26-Nov	/-13 Analyzed	: 27-Nov-13		
Aroclor-1016	< 62.2		μg/kg wet	62.2						
Aroclor-1016 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1221	< 62.2		μg/kg wet	62.2						
Aroclor-1221 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1232	< 62.2		μg/kg wet	62.2						
Aroclor-1232 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1242	< 62.2		μg/kg wet	62.2						
Aroclor-1242 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1248	< 62.2		μg/kg wet	62.2						
Aroclor-1248 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1254	< 62.2		μg/kg wet	62.2						
Aroclor-1254 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1260	< 62.2		μg/kg wet	62.2						
Aroclor-1260 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1262	< 62.2		μg/kg wet	62.2						
Aroclor-1262 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1268	< 62.2		μg/kg wet	62.2						
Aroclor-1268 [2C]	< 62.2		μg/kg wet	62.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	52.8		μg/kg wet		62.2		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	56.0		μg/kg wet		62.2		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	52.8		μg/kg wet		62.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	52.8		μg/kg wet		62.2		85	30-150		
LCS (1328688-BS1)			F99			nared: 26-Nov	/-13 Analyzed			
Aroclor-1016	783		μg/kg wet	60.0	750	<u> </u>	104	40-140		
Aroclor-1016 [2C]	780		μg/kg wet	60.0	750		104	40-140		
Aroclor-1260	681		μg/kg wet	60.0	750		91	40-140		
Aroclor-1260 [2C]	654		μg/kg wet	60.0	750		87	40-140		
	54.0				60.0		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)			μg/kg wet							
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	57.0		μg/kg wet		60.0		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	54.0		μg/kg wet		60.0		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	51.0		μg/kg wet		60.0		85	30-150		
LCS Dup (1328688-BSD1)						pared: 26-Nov	/-13 Analyzed			
Aroclor-1016	830		μg/kg wet	65.4	817		102	40-140	3	30
Aroclor-1016 [2C]	846		μg/kg wet	65.4	817		104	40-140	0.4	30
Aroclor-1260	729		μg/kg wet	65.4	817		89	40-140	2	30
Aroclor-1260 [2C]	771		μg/kg wet	65.4	817		94	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.8		μg/kg wet		65.4		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	62.1		μg/kg wet		65.4		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	58.8		μg/kg wet		65.4		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	58.8		μg/kg wet		65.4		90	30-150		
itch 1328689 - SW846 3540C										
Blank (1328689-BLK1)					Pre	pared: 25-Nov	/-13 Analyzed	: 26-Nov-13		
Aroclor-1016	< 62.2		μg/kg wet	62.2						
Aroclor-1016 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1221	< 62.2		μg/kg wet	62.2						
Aroclor-1221 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1232	< 62.2		μg/kg wet	62.2						
Aroclor-1232 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1242	< 62.2		μg/kg wet	62.2						
Aroclor-1242 [2C]	< 62.2		μg/kg wet	62.2						

Semivolatile Organic Compounds by GC - Quality Control

alyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Limi
tch 1328689 - SW846 3540C										
Blank (1328689-BLK1)					Pre	pared: 25-Nov	v-13 Analyzed	: 26-Nov-13		
Aroclor-1248	< 62.2		μg/kg wet	62.2		•	•			
Aroclor-1248 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1254	< 62.2		μg/kg wet	62.2						
Aroclor-1254 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1260	< 62.2		μg/kg wet	62.2						
Aroclor-1260 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1262	< 62.2		μg/kg wet	62.2						
Aroclor-1262 [2C]	< 62.2		μg/kg wet	62.2						
Aroclor-1268	< 62.2		μg/kg wet	62.2						
Aroclor-1268 [2C]	< 62.2		μg/kg wet	62.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.0		μg/kg wet		62.2		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	65.3		μg/kg wet		62.2		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	71.5		μg/kg wet		62.2		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	80.8		μg/kg wet		62.2		130	30-150		
LCS (1328689-BS1)	23.0		L9.19.101			nared: 25-No.	v-13 Analyzed			
Aroclor-1016	936		ua/ka wat	66.2	827	pareu. 25-Nov	113	40-140		
Aroclor-1016 [2C]	986		μg/kg wet							
Aroclor-1016 [20] Aroclor-1260			μg/kg wet	66.2	827		119	40-140		
	906		μg/kg wet	66.2	827		110	40-140		
Aroclor-1260 [2C]	989		μg/kg wet	66.2	827		120	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	66.2		μg/kg wet		66.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	72.8		μg/kg wet		66.2		110	30-150		
Surrogate: Decachlorobiphenyl (Sr)	82.7		μg/kg wet		66.2		125	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	92.6		μg/kg wet		66.2		140	30-150		
LCS Dup (1328689-BSD1)					Pre	pared: 25-Nov	v-13 Analyzed	: 26-Nov-13		
Aroclor-1016	816		μg/kg wet	64.0	800		102	40-140	10	30
Aroclor-1016 [2C]	870		μg/kg wet	64.0	800		109	40-140	9	30
Aroclor-1260	832		μg/kg wet	64.0	800		104	40-140	5	30
Aroclor-1260 [2C]	854		μg/kg wet	64.0	800		107	40-140	11	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	60.8		μg/kg wet		64.0		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.0		μg/kg wet		64.0		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	70.4		μg/kg wet		64.0		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	80.0		μg/kg wet		64.0		125	30-150		
Duplicate (1328689-DUP1)			Source: SB	80904-11	<u>Pre</u>	pared: 25-Nov	v-13 Analyzed	: 27-Nov-13		
Aroclor-1016	< 311		μg/kg dry	311		BRL				30
Aroclor-1016 [2C]	< 311		μg/kg dry	311		BRL				30
Aroclor-1221	< 311		μg/kg dry	311		BRL				30
Aroclor-1221 [2C]	< 311		μg/kg dry	311		BRL				30
Aroclor-1232	< 311		μg/kg dry	311		BRL				30
Aroclor-1232 [2C]	< 311		μg/kg dry	311		BRL				30
Aroclor-1242	< 311		μg/kg dry	311		BRL				30
Aroclor-1242 [2C]	< 311		μg/kg dry	311		BRL				30
Aroclor-1248	< 311		μg/kg dry	311		BRL				30
Aroclor-1248 [2C]	< 311		μg/kg dry	311		BRL				30
Aroclor-1254	< 311		μg/kg dry	311		BRL				30
Aroclor-1254 [2C]	< 311		μg/kg dry	311		BRL				30
- L - J	326		μg/kg dry	311		399			20	30
Aroclor-1260			rama ury	J.,		555				
Aroclor-1260 Aroclor-1260 [2C]			ua/ka dn/	311		322			1	3(1)
Aroclor-1260 [2C]	326		μg/kg dry	311 311		322 BBI			1	30 30
			μg/kg dry μg/kg dry μg/kg dry	311 311 311		322 BRL BRL			1	30 30 30

Semivolatile Organic Compounds by GC - Quality Control

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
atch 1328689 - SW846 3540C										
<u>Duplicate (1328689-DUP1)</u>			Source: SB	80904-11	Pre	pared: 25-Nov	-13 Analyzed	: 27-Nov-13		
Aroclor-1268 [2C]	< 311		μg/kg dry	311		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	77.7	SGC	μg/kg dry		311		25	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	93.3		μg/kg dry		311		30	30-150		
Surrogate: Decachlorobiphenyl (Sr)	233		μg/kg dry		311		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	233		μg/kg dry		311		75	30-150		
Matrix Spike (1328689-MS1)			Source: SB	80904-11	Pre	pared: 25-Nov	-13 Analyzed	: 27-Nov-13		
Aroclor-1016	4730		μg/kg dry	823	10300	BRL	46	40-140		
Aroclor-1016 [2C]	4650		μg/kg dry	823	10300	BRL	45	40-140		
Aroclor-1260	7860		μg/kg dry	823	10300	399	73	40-140		
Aroclor-1260 [2C]	7610		μg/kg dry	823	10300	322	71	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	823		μg/kg dry		823		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	864		μg/kg dry		823		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	1190		μg/kg dry		823		145	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	1150		μg/kg dry		823		140	30-150		
Matrix Spike Dup (1328689-MSD1)			Source: SB	80904-11	Pre	pared: 25-Nov	-13 Analyzed	: 27-Nov-13		
Aroclor-1016	5100		μg/kg dry	911	11400	BRL	45	40-140	3	30
Aroclor-1016 [2C]	5150		μg/kg dry	911	11400	BRL	45	40-140	0	30
Aroclor-1260	8060		μg/kg dry	911	11400	399	67	40-140	7	30
Aroclor-1260 [2C]	8750		μg/kg dry	911	11400	322	74	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	866		μg/kg dry	_	911	_	95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	911		μg/kg dry		911		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	1180		μg/kg dry		911		130	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	1320		μg/kg dry		911		145	30-150		

Notes and Definitions

D Data reported from a dilution

GS1 Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

P Difference between the two GC columns is greater than 40%.

R02 Elevated Reporting Limits due to limited sample volume.

S01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration

and/or matrix interference's.

SGC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: Kimberly Wisk Rebecca Merz



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Standard TAT - 7 to 10 business day;

Rush TAT - Date Needed:

All TATs subject to laboratory approval

 Samples disposed of after 60 days unless otherwise instructed. Min. 24-hour notification needed for rushes

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1.5	8	,	X 5601	02	-2
CAVIK - S. WAR - C	8		X 910/ 511/2	01	10-175
State-specific reporting standards:	P	# # # #	Date: Time: Ty	Sample Id:	Lab Id:
1	18	of V of A of C	ype		
□ NJ Reduced* □ NJ Full*	11	OA mbe clear lasti	osite	G=Grab C=Composite	
□ NY ASP A* □ NY ASP B*	35°C	er G Gla			
QA/QC Reporting Level	10 G	lass	2	1	0
CT DPH RCP Report: Yes TNO [Analyses:	Containers:	ter WW=Wastewater SL=Sludge A=Air	nking Water GW=Groundwater SW= Surface Water SO=Soil	DW=Drinking Water O=Oil SW= Surface
* additional charges may apply			10= H ₃ PO ₄ 11=	I	8= NaHSO ₄
QA/QC Reporting Notes:	List preservative code below:	6=Ascorbic Acid 7=CH ₃ OH	4=HNO ₃ 5=NaOH 6=A	O_3 2=HCl 3=H ₂ SO ₄	1=Na ₂ S2O ₃
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CHAIN OF CUSTODY RECORD

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L Rush TAT - Date Needed	☐ Standard TAT - 7 to 10 business day	Special Handling:
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Samples disposed of after 60 days unless otherwise instructed. All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes

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	Con	DAS PRICIAL)	MADC -	5 # 6
Telephone #: 860 256	agrif		Location: BASIN 2	State: C7
PLIM,	70 N P.O. No.:	No.: (2/1304) RQN:	Sampler(s): PUMMTON	
D_D	I ₂ SO ₄ 4=HNO ₃ 5=NaOH /ater 10=H ₃ PO ₄ 11=	H 6=Ascorbic Acid 7=CH ₃ OH COLY 12=	List preservative code below:	QA/QC Reporting Notes:
W=Drinking Water GW=Groundwater $0 = 0 \text{il SW} = \text{Surface Water SO} = \text{Soil}$ $X1 = CWUC X2 = COUC$	roundwater WW=Wastewater SO=Soil SL=Sludge A=Air CO/UC $X3=$	Con	Analyses:	MA DEP MCP CAM Report: Yes□ No□ CT DPH RCP Report: Yes□No□
G=Grab C=0	C=Composite	OA Vialanber Glasear Glass	3540 0XHLE	п° а
Lab Id: Sample Id:	Date: Time:	# of An	063/5	□ NJ Keduced* □ NJ Full* □ TIER II* □ TIER IV*
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			Condition upon receipt: / Custody Seals: ☐ Present ☐ Intact ☐ Broken ☐ Ambient ☐ Iced No Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen	ls: ☐ Present ☐ Intact ☐ Broken☐ DI VOA Frozen ☐ Soil Jar Frozen

Report Date: 10-Dec-13 14:17



☑ Final Report☐ Re-Issued Report

□ Revised Report

Laboratory Report

TRC

21 Griffin Road North Project: MDC - WWTP - Hartford, CT

Windsor, CT 06095 Project #: 211304.0000.000

Attn: Erik Plimpton

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
SB81510-01	01	Concrete	05-Dec-13 10:15	06-Dec-13 16:30
SB81510-02	02	Concrete	05-Dec-13 10:30	06-Dec-13 16:30
SB81510-03	03	Concrete	05-Dec-13 11:00	06-Dec-13 16:30
SB81510-04	04	Concrete	05-Dec-13 10:45	06-Dec-13 16:30
SB81510-05	05	Soil	05-Dec-13 11:25	06-Dec-13 16:30
SB81510-06	06	Soil	05-Dec-13 11:35	06-Dec-13 16:30
SB81510-07	07	Soil	05-Dec-13 11:45	06-Dec-13 16:30
SB81510-08	08	Soil	05-Dec-13 12:20	06-Dec-13 16:30
SB81510-09	09	Soil	05-Dec-13 12:30	06-Dec-13 16:30
SB81510-10	10	Soil	05-Dec-13 12:40	06-Dec-13 16:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Icolo Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 17 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols Laboratory Analysis QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. Client: TRC - Windsor, CT

Project Location: MDC - WWTP - Hartford, CT Project Number: 211304.0000.000

Sampling Date(s): Laboratory Sample ID(s):

12/5/2013 SB81510-01 through SB81510-10

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓	Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓	Yes	No
1B	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?		Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓	Yes	No
3	Were samples received at an appropriate temperature?	✓	Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	>	Yes	No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?		Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓	Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓	Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja Laboratory Director

Micole Leja

Date: 12/10/2013

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of \pm 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB81510-08 08

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

10-Dec-13 14:17 * Reportable Detection Limit Page 3 of 17

Sample Acceptance Check Form

Client:	TRC - Windsor, CT			
Project:	MDC - WWTP - Hartford, CT / 211304.0000.000			
Work Order:	SB81510			
Sample(s) received on:	12/6/2013			
Received by:	Jessica Hoffman			
The following outlines th	ne condition of samples for the attached Chain of Custody upon receipt.			
Were custody se	als present?	Yes	<u>No</u> ✓	<u>N/A</u>
2. Were custody se	als intact?			\checkmark
3. Were samples re	ceived at a temperature of \leq 6°C?	$\overline{\checkmark}$		
4. Were samples co	ooled on ice upon transfer to laboratory representative?		\checkmark	
5. Were samples re	frigerated upon transfer to laboratory representative?	\checkmark		
6. Were sample con	ntainers received intact?	$\overline{\checkmark}$		
1 1	roperly labeled (labels affixed to sample containers and include sample ID, site project number and the collection date)?	\checkmark		
8. Were samples ac	ecompanied by a Chain of Custody document?	\checkmark		
include sample I	ustody document include proper, full, and complete documentation, which shall D, site location, and/or project number, date and time of collection, collector's name, e, sample matrix and any special remarks concerning the sample?			
10. Did sample cont	ainer labels agree with Chain of Custody document?	\checkmark		

11. Were samples received within method-specific holding times?

Sample Identification 01 SB81510-01 CAS No. Analyte(s) Result Flag		<u>Client Project #</u> 211304.0000.000		Matrix Concrete		Collection Date/Time 05-Dec-13 10:15			Received 06-Dec-13				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.1		μg/kg dry	21.1	15.7	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 21.1		μg/kg dry	21.1	19.0	1	п		п	"		Χ
11141-16-5	Aroclor-1232	< 21.1		μg/kg dry	21.1	13.5	1			u	"		Χ
53469-21-9	Aroclor-1242	< 21.1		μg/kg dry	21.1	12.7	1			u	"		Χ
12672-29-6	Aroclor-1248	127		μg/kg dry	21.1	11.0	1			u	"		Χ
11097-69-1	Aroclor-1254	< 21.1		μg/kg dry	21.1	17.6	1	п		п	"		Χ
11096-82-5	Aroclor-1260	< 21.1		μg/kg dry	21.1	13.1	1			u	"		Χ
37324-23-5	Aroclor-1262	< 21.1		μg/kg dry	21.1	19.6	1			u	"		Χ
11100-14-4	Aroclor-1268	< 21.1		μg/kg dry	21.1	8.69	1	ı		ıı	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		п		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	0 %		II .		ıı	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		п		н	"		
General C	Chemistry Parameters												

09-Dec-13 09-Dec-13

DT

1329563

% Solids

Sample Id 02 SB81510	dentification -02			<u>Client P</u> 211304.0			<u>Matrix</u> Concrete		ection Date i-Dec-13 10			Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 20.9		μg/kg dry	20.9	15.6	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Х
11104-28-2	Aroclor-1221	< 20.9		μg/kg dry	20.9	18.8	1				"		Χ
11141-16-5	Aroclor-1232	< 20.9		μg/kg dry	20.9	13.4	1				"		Χ
53469-21-9	Aroclor-1242	< 20.9		μg/kg dry	20.9	12.6	1			"	"		Χ
12672-29-6	Aroclor-1248 [2C]	70.0		μg/kg dry	20.9	9.18	1				"		Χ
11097-69-1	Aroclor-1254	70.0		μg/kg dry	20.9	17.4	1				"		Χ
11096-82-5	Aroclor-1260	< 20.9		μg/kg dry	20.9	13.0	1				"		Χ
37324-23-5	Aroclor-1262	< 20.9		μg/kg dry	20.9	19.5	1				"		Χ
11100-14-4	Aroclor-1268	< 20.9		μg/kg dry	20.9	8.63	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %		и			"		

09-Dec-13 09-Dec-13

DT

1329563

General Chemistry Parameters % Solids

03 SB81510	-03			Client P 211304.0			Matrix Concrete		ection Date -Dec-13 11			Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC .											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 20.4		μg/kg dry	20.4	15.3	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Х
11104-28-2	Aroclor-1221	< 20.4		μg/kg dry	20.4	18.4	1	п			"		Χ
11141-16-5	Aroclor-1232	< 20.4		μg/kg dry	20.4	13.1	1	п			"		Х
53469-21-9	Aroclor-1242	< 20.4		μg/kg dry	20.4	12.3	1	п			"		Х
12672-29-6	Aroclor-1248	32.7		μg/kg dry	20.4	10.6	1	п			"		Х
11097-69-1	Aroclor-1254	< 20.4		μg/kg dry	20.4	17.0	1	п			"		Х
11096-82-5	Aroclor-1260	< 20.4		μg/kg dry	20.4	12.7	1	п			"		Χ
37324-23-5	Aroclor-1262	< 20.4		μg/kg dry	20.4	19.0	1	п			"		Χ
11100-14-4	Aroclor-1268	< 20.4		μg/kg dry	20.4	8.43	1				"		Χ
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %					"		

SM2540 G Mod.

09-Dec-13 09-Dec-13

DT

1329563

Decachlorobiphenyl (Sr)

[2C]
General Chemistry Parameters
% Solids

105

94.4

2051-24-3

Sample 10 04 SB81510	-04			Client P 211304.0			Matrix Concrete		-Dec-13 10			ceived Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 62.0		μg/kg dry	62.0	46.3	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 62.0		μg/kg dry	62.0	55.9	1			"	"		Χ
11141-16-5	Aroclor-1232	< 62.0		μg/kg dry	62.0	39.8	1				"		Χ
53469-21-9	Aroclor-1242	< 62.0		μg/kg dry	62.0	37.3	1			п	"		Χ
12672-29-6	Aroclor-1248	< 62.0		μg/kg dry	62.0	32.2	1			и	"		Χ
11097-69-1	Aroclor-1254	< 62.0		μg/kg dry	62.0	51.7	1			и	"		Χ
11096-82-5	Aroclor-1260	< 62.0		μg/kg dry	62.0	38.4	1			u	"		Х
37324-23-5	Aroclor-1262	< 62.0		μg/kg dry	62.0	57.8	1			u	"		Х
11100-14-4	Aroclor-1268	< 62.0		μg/kg dry	62.0	25.6	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %				ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %				ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %				ı	"		

09-Dec-13 09-Dec-13

DT

1329563

% Solids

05 SB81510	-05			Client P 211304.0			<u>Matrix</u> Soil		ection Date -Dec-13 11			ceived Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina Polyc	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 19.8		μg/kg dry	19.8	14.8	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 19.8		μg/kg dry	19.8	17.9	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 19.8		μg/kg dry	19.8	12.7	1	н		u	"		Χ
53469-21-9	Aroclor-1242	< 19.8		μg/kg dry	19.8	11.9	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	34.7		μg/kg dry	19.8	8.71	1			п	"		Χ
11097-69-1	Aroclor-1254	< 19.8		μg/kg dry	19.8	16.5	1			ıı	"		Χ
11096-82-5	Aroclor-1260	< 19.8		μg/kg dry	19.8	12.3	1			и	"		Х
37324-23-5	Aroclor-1262	< 19.8		μg/kg dry	19.8	18.5	1			и	"		Х
11100-14-4	Aroclor-1268	< 19.8		μg/kg dry	19.8	8.18	1	и			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		п		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	50 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %		и			"		

09-Dec-13 09-Dec-13

DT

1329563

% Solids

Sample Io 06 SB81510	dentification -06			<u>Client P</u> 211304.0			<u>Matrix</u> Soil	-	ection Date -Dec-13 11			ceived Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	БС											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.5		μg/kg dry	21.5	16.1	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Х
11104-28-2	Aroclor-1221	< 21.5		μg/kg dry	21.5	19.4	1	п			"		Х
11141-16-5	Aroclor-1232	< 21.5		μg/kg dry	21.5	13.8	1	п			"		Χ
53469-21-9	Aroclor-1242	< 21.5		μg/kg dry	21.5	12.9	1	п			"		Χ
12672-29-6	Aroclor-1248 [2C]	24.7		μg/kg dry	21.5	9.44	1	и			"		Χ
11097-69-1	Aroclor-1254	< 21.5		μg/kg dry	21.5	17.9	1			н	"		Χ
11096-82-5	Aroclor-1260	< 21.5		μg/kg dry	21.5	13.3	1			н	"		Χ
37324-23-5	Aroclor-1262	< 21.5		μg/kg dry	21.5	20.0	1	II .		н	"		Χ
11100-14-4	Aroclor-1268	< 21.5		μg/kg dry	21.5	8.87	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		н	•	п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %					n n		
2051-24-3	Decachlorobiphenyl (Sr)	115			30-15	50 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-15	50 %					II		
General C	Chemistry Parameters												
	% Solids	91.0		%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	

Sample Io 07 SB81510	dentification -07			Client P 211304.0			<u>Matrix</u> Soil	· · · · · · · · · · · · · · · · · · ·	ection Date i-Dec-13 11			ceived Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC .											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.4		μg/kg dry	21.4	16.0	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 21.4		μg/kg dry	21.4	19.3	1	н		и	"		Χ
11141-16-5	Aroclor-1232	< 21.4		μg/kg dry	21.4	13.8	1			u	"		Χ
53469-21-9	Aroclor-1242	< 21.4		μg/kg dry	21.4	12.9	1			u	"		Χ
12672-29-6	Aroclor-1248 [2C]	54.6		μg/kg dry	21.4	9.41	1			u	"		Χ
11097-69-1	Aroclor-1254 [2C]	66.4		μg/kg dry	21.4	12.5	1	и		u	"		Χ
11096-82-5	Aroclor-1260	< 21.4		μg/kg dry	21.4	13.3	1	п		u	"		Χ
37324-23-5	Aroclor-1262	< 21.4		μg/kg dry	21.4	20.0	1			u	"		Χ
11100-14-4	Aroclor-1268	< 21.4		μg/kg dry	21.4	8.84	1	u .		н	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	60 %		п		ıı	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %		н		ı	"		
General C	Chemistry Parameters												

09-Dec-13 09-Dec-13

DT

1329564

% Solids

Client Project # 211304.0000.000

Matrix Soil Collection Date/Time 05-Dec-13 12:20 Received 06-Dec-13

SB81510	0-08			211304.0	000.000		Soil	03	5-Dec-13 12	2:20	06-1	Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls		GS1										
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 204	D	μg/kg dry	204	153	10	SW846 8082A	06-Dec-13	10-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 204	D	μg/kg dry	204	184	10			u u	"		Χ
11141-16-5	Aroclor-1232	< 204	D	μg/kg dry	204	131	10	п		п	"		Χ
53469-21-9	Aroclor-1242	< 204	D	μg/kg dry	204	123	10	п		п	"		Χ
12672-29-6	Aroclor-1248 [2C]	4,500	D	μg/kg dry	204	89.8	10			и	"		Χ
11097-69-1	Aroclor-1254 [2C]	6,510	D	μg/kg dry	204	120	10			и	"		Χ
11096-82-5	Aroclor-1260	< 204	D	μg/kg dry	204	127	10			u	"		Χ
37324-23-5	Aroclor-1262	< 204	D	μg/kg dry	204	190	10			u	"		Χ
11100-14-4	Aroclor-1268	< 204	D	μg/kg dry	204	84.3	10	ı			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150	0 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150	0 %		н		ı	"		
General C	Chemistry Parameters												
	% Solids	90.2		%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	

Sample 10 09 SB81510	dentification -09			Client P 211304.0			<u>Matrix</u> Soil		ection Date -Dec-13 12			ceived Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 20.2		μg/kg dry	20.2	15.1	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 20.2		μg/kg dry	20.2	18.2	1			п	"		Χ
11141-16-5	Aroclor-1232	< 20.2		μg/kg dry	20.2	12.9	1				"		Χ
53469-21-9	Aroclor-1242	< 20.2		μg/kg dry	20.2	12.1	1			u	"		Χ
12672-29-6	Aroclor-1248 [2C]	1,830		μg/kg dry	20.2	8.85	1	н			"		Χ
11097-69-1	Aroclor-1254	< 20.2		μg/kg dry	20.2	16.8	1	н					Χ
11096-82-5	Aroclor-1260	< 20.2		μg/kg dry	20.2	12.5	1	п		ıı			Χ
37324-23-5	Aroclor-1262	< 20.2		μg/kg dry	20.2	18.8	1			п	"		Χ
11100-14-4	Aroclor-1268	< 20.2		μg/kg dry	20.2	8.31	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %		п		и	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-15	0 %		11		ı	"		
General C	Chemistry Parameters												

09-Dec-13 09-Dec-13

DT

1329564

% Solids

10 SB81510	-10			<u>Client P</u> 211304.0			<u>Matrix</u> Soil		ection Date -Dec-13 12			ceived Dec-13	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina Polyc	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.8		μg/kg dry	21.8	16.3	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	Χ
11104-28-2	Aroclor-1221	< 21.8		μg/kg dry	21.8	19.6	1	п		II .	"		Χ
11141-16-5	Aroclor-1232	< 21.8		μg/kg dry	21.8	14.0	1			"	"		Χ
53469-21-9	Aroclor-1242	< 21.8		μg/kg dry	21.8	13.1	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	968		μg/kg dry	21.8	9.56	1			п	"		Χ
11097-69-1	Aroclor-1254 [2C]	967		μg/kg dry	21.8	12.8	1	п		ıı	"		Χ
11096-82-5	Aroclor-1260	< 21.8		μg/kg dry	21.8	13.5	1	п		и	"		Х
37324-23-5	Aroclor-1262	< 21.8		μg/kg dry	21.8	20.3	1	п		и	"		Х
11100-14-4	Aroclor-1268	< 21.8		μg/kg dry	21.8	8.99	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	50 %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	50 %		II .		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		п			"		

09-Dec-13 09-Dec-13

DT

1329564

% Solids

Semivolatile Organic Compounds by GC - Quality Control

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Limi
atch 1329493 - SW846 3540C										
Blank (1329493-BLK1)					Pre	nared: 06-Dec	-13 Analyzed	· 09-Dec-13		
Aroclor-1016	< 19.1		μg/kg wet	19.1	110	parca. 00 Dcc	10 Analyzea	. 00 DCC 10		
Aroclor-1016 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1221	< 19.1		μg/kg wet	19.1						
Aroclor-1221 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1232	< 19.1		μg/kg wet	19.1						
Aroclor-1232 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1242	< 19.1		μg/kg wet	19.1						
Aroclor-1242 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1248	< 19.1		μg/kg wet	19.1						
Aroclor-1248 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1254	< 19.1		μg/kg wet	19.1						
Aroclor-1254 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1260	< 19.1		μg/kg wet	19.1						
Aroclor-1260 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1262	< 19.1		μg/kg wet	19.1						
Aroclor-1262 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1268	< 19.1		μg/kg wet	19.1						
Aroclor-1268 [2C]	< 19.1		μg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.3		μg/kg wet		19.1		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.2		μg/kg wet		19.1		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.2		μg/kg wet		19.1		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	20.1		μg/kg wet		19.1		105	30-150		
LCS (1329493-BS1)					Pre	pared: 06-Dec	-13 Analyzed	: 09-Dec-13		
Aroclor-1016	177		μg/kg wet	19.4	242		73	40-140		
Aroclor-1016 [2C]	180		μg/kg wet	19.4	242		74	40-140		
Aroclor-1260	187		μg/kg wet	19.4	242		77	40-140		
Aroclor-1260 [2C]	178		μg/kg wet	19.4	242		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		μg/kg wet		19.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.5		μg/kg wet		19.4		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.3		μg/kg wet		19.4		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	20.3		μg/kg wet		19.4		105	30-150		
LCS Dup (1329493-BSD1)					Pre	pared: 06-Dec	-13 Analyzed	: 09-Dec-13		
Aroclor-1016	178		μg/kg wet	19.7	246		72	40-140	1	30
Aroclor-1016 [2C]	186		μg/kg wet	19.7	246		76	40-140	2	30
Aroclor-1260	192		μg/kg wet	19.7	246		78	40-140	1	30
Aroclor-1260 [2C]	184		μg/kg wet	19.7	246		75	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.8		μg/kg wet		19.7		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.8		μg/kg wet		19.7		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.7		μg/kg wet		19.7		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.7		μg/kg wet		19.7		100	30-150		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1329564 - General Preparation										
Duplicate (1329564-DUP1)			Source: SI	381510-06	Pre	pared & Analy	zed: 09-Dec-13	<u>3</u>		
% Solids	90.6		%			91.0			0.5	20

Notes and Definitions

D Data reported from a dilution

GS1 Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: Rebecca Merz



Featuring HANIBAL TECHNOLOGY

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Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: 48 hr 74

· All TATs subject to laboratory approval.

Min. 24-hour notification needed for rushes

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	days
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bed DIVOA Frozen D Soil for Frozen	Condition upon receipt:				C		
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11 194 @	1107	3 1530	12/5/11	M	-		A PARTY
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1- 1- South - 18"	X VA ING	F	<u>L</u>	1246 -	4	01	10
Ol - Center-16"	× 11/21/01/11			1230		09	109
Bash 2- North -11"	×			1220		80	00
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Basin 1-Concrete-7"	×	2	G X4	18 1015	12/5/13	1.0	81510-01
Other State-specific reporting standards:	808 2	# of A # of C # of P	Type Matrix # of V	Time:	Date:	Sample Id:	Lab Id:
□ NY ASP A* □ NY ASP B* □ NJ Reduced* □ NJ Full*		lear G	X YOA V		C=Composite	G=Grab C=(
QA/QC Reporting Level Standard No QC DQA*	400		ial s)= 	X3=	K2=,	XI= Conneho
CT DPH RCP Report: Yes No [S		dge A=Air	SO=Soil SL=Sludge		Ĕ
MA DEP MCP CAM Report: Yes ☐ No!	Analyses:	Containers:		WW=Wastewater		Water GW=Groundwater	DW=Drinking Water
* additional charges may apply	21		0 12=_	11= Ice	Vater 10= H ₃ PO ₄	9= Deioniz	8= NaHSO ₄
QA/QC Reporting Notes:	List preservative code below:	7=CH ₃ OH	6=Ascorbic Acid	5=NaOH	$f=H_2SO_4$ $4=HNO_3$	2=HCl	1=Na ₂ S2O ₃
	Sampler(s): 6, Kaczyrsh	RQN:	C211304	P.O. No.:	676	Erik Plimox	Project Mgr.
State: CT	Location: W. Hartford					2	3
64	Site Name: MR-Resolut	eport	Same as Re				
(br)	Project No.: 211304, Cooo, Com			- Invoice To:		TRC Enulamente	Report To:
AND IN CITY OF THE PARTY OF THE	T ACT LA TATING						

Report Date: 21-Feb-14 15:36



☑ Final Report☐ Re-Issued Report☐ Revised Report

Laboratory Report

TRC

Attn: Erik Plimpton

21 Griffin Road North Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT

Windsor, CT 06095 Project #: 211304.0000.0000

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
SB84794-01	0-C-14"	Concrete	18-Feb-14 10:40	19-Feb-14 13:15
SB84794-02	0-C-16"	Concrete	18-Feb-14 10:30	19-Feb-14 13:15
SB84794-03	0-C-3"D	Concrete	18-Feb-14 11:00	19-Feb-14 13:15
SB84794-04	3/4-C-14"	Concrete	18-Feb-14 11:30	19-Feb-14 13:15
SB84794-05	3/4-C-16"	Concrete	18-Feb-14 11:40	19-Feb-14 13:15
SB84794-06	3/4-C-3"D	Concrete	18-Feb-14 13:10	19-Feb-14 13:15
SB84794-07	8/9-C-14"	Concrete	18-Feb-14 13:30	19-Feb-14 13:15
SB84794-08	8/9-C-16"	Concrete	18-Feb-14 14:00	19-Feb-14 13:15
SB84794-09	8/9-C-3"D	Concrete	18-Feb-14 14:20	19-Feb-14 13:15
SB84794-10	8/9-C-6"D	Concrete	18-Feb-14 14:40	19-Feb-14 13:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Ticolo Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 16 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols Laboratory Analysis QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 2)-West Project Number: 211304.0000.0000

Hartford, CT Sampling Date(s): Laboratory Sample ID(s):

2/18/2014 SB84794-01 through SB84794-10

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓	Yes	No)
1A	Were the method specified preservation and holding time requirements met?	✓	Yes	No	,
1B	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?		Yes	No)
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	~	Yes	No	,
3	Were samples received at an appropriate temperature?	✓	Yes	No	,
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	√	Yes	No	,
5	a) Were reporting limits specified or referenced on the chain-of-custody?b) Were these reporting limits met?		Yes Yes	✓ No No	
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	√	Yes	No	,
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?		Yes	✓ No	,

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja Laboratory Director

Micole Leja

Date: 2/21/2014

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 0.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Jient:		TRC - Windsor, CT			
Project:		MDC - Reservoir #6 (Basin 2)-West Hartford, CT / 211304.0000.0000			
Work C	order:	SB84794			
Sample	(s) received on:	2/19/2014			
Receive	ed by:	Jessica Hoffman			
The foli	lowing outlines the	condition of samples for the attached Chain of Custody upon receipt.			
			Yes	<u>No</u>	<u>N/A</u>
1.	Were custody seal	s present?		\checkmark	
2.	Were custody seal	s intact?			✓
3.	Were samples rec	eived at a temperature of $\leq 6^{\circ}$ C?	\checkmark		
4.	Were samples coo	eled on ice upon transfer to laboratory representative?		\checkmark	
5.	Were samples refi	rigerated upon transfer to laboratory representative?	✓		
6.	Were sample cont	ainers received intact?	✓		
7.	1 1	perly labeled (labels affixed to sample containers and include sample ID, site roject number and the collection date)?	\checkmark		
8.	Were samples acc	ompanied by a Chain of Custody document?	\checkmark		
9.	include sample ID	stody document include proper, full, and complete documentation, which shall b, site location, and/or project number, date and time of collection, collector's name, sample matrix and any special remarks concerning the sample?	<u> </u>		
10.	Did sample contain	ner labels agree with Chain of Custody document?	\checkmark		
11.	Were samples rec	eived within method-specific holding times?	\overline{V}	П	П

0-C-14"	B84794-01			<u>Client Project #</u> 211304.0000.0000		Matrix Concrete	Collection Date/Time 18-Feb-14 10:40			<u>Re</u> 19-1			
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 69.4		μg/kg dry	69.4	51.8	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 69.4		μg/kg dry	69.4	62.5	1	п			"		Χ
11141-16-5	Aroclor-1232	< 69.4		μg/kg dry	69.4	44.6	1				"		Χ
53469-21-9	Aroclor-1242	< 69.4		μg/kg dry	69.4	41.7	1			н	"		Χ
12672-29-6	Aroclor-1248 [2C]	1,230		μg/kg dry	69.4	30.5	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	881		μg/kg dry	69.4	40.6	1				"		Χ
11096-82-5	Aroclor-1260	< 69.4		μg/kg dry	69.4	43.0	1				"		Χ
37324-23-5	Aroclor-1262	< 69.4		μg/kg dry	69.4	64.6	1	п			"		Х
11100-14-4	Aroclor-1268	< 69.4		μg/kg dry	69.4	28.6	1	п			"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		и	•	п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %		н		н	"		
General (Chemistry Parameters												
	% Solids	92.3		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

0-C-16"	B84794-02			<u>Client Project #</u> 211304.0000.0000		<u>Matrix</u> Concrete	Collection Date/Time 18-Feb-14 10:30			<u>Re</u> 19-1			
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 67.8		μg/kg dry	67.8	50.6	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 67.8		μg/kg dry	67.8	61.1	1				"		Χ
11141-16-5	Aroclor-1232	< 67.8		μg/kg dry	67.8	43.5	1	н			"		Χ
53469-21-9	Aroclor-1242	< 67.8		μg/kg dry	67.8	40.8	1				"		Χ
12672-29-6	Aroclor-1248	830		μg/kg dry	67.8	35.2	1			н	"		Χ
11097-69-1	Aroclor-1254 [2C]	745		μg/kg dry	67.8	39.7	1			н	"		Χ
11096-82-5	Aroclor-1260	< 67.8		μg/kg dry	67.8	42.0	1				"		Χ
37324-23-5	Aroclor-1262	< 67.8		μg/kg dry	67.8	63.1	1				"		Χ
11100-14-4	Aroclor-1268	< 67.8		μg/kg dry	67.8	28.0	1	и			"		Х
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		и	•	п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	60 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %		н	н	ı	"		
General (Chemistry Parameters												
	% Solids	92.2		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

Sample Id)-C-3''D SB84794-	-03		<u>Client Project #</u> 211304.0000.0000		Matrix Concrete	Collection Date/Time 18-Feb-14 11:00			Received 19-Feb-14				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls by method SW846 3540C												
2674-11-2	Aroclor-1016	< 68.2		μg/kg dry	68.2	51.0	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
1104-28-2	Aroclor-1221	< 68.2		μg/kg dry	68.2	61.5	1				"		Х
1141-16-5	Aroclor-1232	< 68.2		μg/kg dry	68.2	43.8	1				"		Х
3469-21-9	Aroclor-1242	< 68.2		μg/kg dry	68.2	41.0	1			н	"		Х
2672-29-6	Aroclor-1248 [2C]	88.7		μg/kg dry	68.2	30.0	1				"		Х
1097-69-1	Aroclor-1254	140		μg/kg dry	68.2	56.9	1				"		Х
1096-82-5	Aroclor-1260	< 68.2		μg/kg dry	68.2	42.3	1				"		Х
7324-23-5	Aroclor-1262	< 68.2		μg/kg dry	68.2	63.6	1				"		Х
1100-14-4	Aroclor-1268	< 68.2		μg/kg dry	68.2	28.1	1			н	"		Χ
Surrogate reco	overies:												
0386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150	0 %		•			"		
0386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150	0 %		•			"		
051-24-3	Decachlorobiphenyl (Sr)	90			30-150	0 %					"		
051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150	0 %		•	н	ı	"		
051-24-3	Decachlorobiphenyl (Sr)												

19-Feb-14 19-Feb-14

DT

1403718

% Solids

3/4-C-14	B84794-04			<u>Client Project #</u> 211304.0000.0000		<u>Matrix</u> Concrete	Collection Date/Time 18-Feb-14 11:30			Received 19-Feb-14			
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 73.0		μg/kg dry	73.0	54.5	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 73.0		μg/kg dry	73.0	65.8	1	п			"		Χ
11141-16-5	Aroclor-1232	< 73.0		μg/kg dry	73.0	46.9	1				"		Χ
53469-21-9	Aroclor-1242	< 73.0		μg/kg dry	73.0	43.9	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	6,800		μg/kg dry	73.0	32.0	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	14,700		μg/kg dry	73.0	42.7	1			н	"		Χ
11096-82-5	Aroclor-1260	3,240		μg/kg dry	73.0	45.3	1	п			"		Χ
37324-23-5	Aroclor-1262	< 73.0		μg/kg dry	73.0	68.0	1	п			"		Χ
11100-14-4	Aroclor-1268	< 73.0		μg/kg dry	73.0	30.1	1				"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		11		н	"		
General (Chemistry Parameters												
	% Solids	90.3		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

Sample Id 3/4-C-16' SB84794				Client P 211304.00			<u>Matrix</u> Concrete	-	ection Date 3-Feb-14 11			ceived Feb-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls												
	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 67.1		μg/kg dry	67.1	50.1	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 67.1		μg/kg dry	67.1	60.5	1			"	"		Χ
11141-16-5	Aroclor-1232	< 67.1		μg/kg dry	67.1	43.1	1			"	"		Χ
53469-21-9	Aroclor-1242	< 67.1		μg/kg dry	67.1	40.4	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	3,710		μg/kg dry	67.1	29.5	1			"	"		Χ
11097-69-1	Aroclor-1254 [2C]	8,650		μg/kg dry	67.1	39.3	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	1,330		μg/kg dry	67.1	33.6	1				"		Χ
37324-23-5	Aroclor-1262	< 67.1		μg/kg dry	67.1	62.5	1	п			"		Χ
11100-14-4	Aroclor-1268	< 67.1		μg/kg dry	67.1	27.7	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		ı	•		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		и			"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	50 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		н			"		
General C	Chemistry Parameters												
	% Solids	89.7		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

3/4-C-3''	384794-06		<u>Client Project #</u> 211304.0000.0000		<u>Matrix</u> Concrete	Collection Date/Time 18-Feb-14 13:10			Received 19-Feb-14				
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 62.4		μg/kg dry	62.4	46.6	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 62.4		μg/kg dry	62.4	56.2	1				"		Χ
11141-16-5	Aroclor-1232	< 62.4		μg/kg dry	62.4	40.0	1				"		Χ
53469-21-9	Aroclor-1242	< 62.4		μg/kg dry	62.4	37.5	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	168		μg/kg dry	62.4	27.4	1	п			"		Χ
11097-69-1	Aroclor-1254 [2C]	190		μg/kg dry	62.4	36.5	1			н	"		Χ
11096-82-5	Aroclor-1260	< 62.4		μg/kg dry	62.4	38.7	1				"		Χ
37324-23-5	Aroclor-1262	< 62.4		μg/kg dry	62.4	58.1	1				"		Χ
11100-14-4	Aroclor-1268	< 62.4		μg/kg dry	62.4	25.7	1	ı			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %			•		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %		н		н	"		
General C	Chemistry Parameters												
	% Solids	94.4		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

8/9-C-14	84794-07			<u>Client Project #</u> 211304.0000.0000		<u>Matrix</u> Concrete	Collection Date/Time 18-Feb-14 13:30			Received 19-Feb-14			
CAS No.	Analyte(s)	Result F	lag U	Inits	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 66.3	μg/	/kg dry	66.3	49.5	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 66.3	μg/	/kg dry	66.3	59.8	1			п	"		Χ
11141-16-5	Aroclor-1232	< 66.3	μg/	/kg dry	66.3	42.6	1	н			"		Χ
53469-21-9	Aroclor-1242	< 66.3	μg/	/kg dry	66.3	39.9	1			н	"		Χ
12672-29-6	Aroclor-1248	1,820	μg/	/kg dry	66.3	34.5	1			п	"		Χ
11097-69-1	Aroclor-1254 [2C]	4,380	μg/	/kg dry	66.3	38.8	1				"		Χ
11096-82-5	Aroclor-1260	2,210	μg/	/kg dry	66.3	41.1	1				"		Χ
37324-23-5	Aroclor-1262	< 66.3	μg/	/kg dry	66.3	61.8	1				"		Χ
11100-14-4	Aroclor-1268	< 66.3	μg/	/kg dry	66.3	27.4	1	и			"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		и	•		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	110			30-15	0 %				н			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	0 %		н			"		
General (Chemistry Parameters												
	% Solids	89.6		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

8/9-C-16	B84794-08			<u>Client Project #</u> 211304.0000.0000		Matrix Concrete	Collection Date/Time 18-Feb-14 14:00			Received 19-Feb-14			
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 63.8		μg/kg dry	63.8	47.7	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 63.8		μg/kg dry	63.8	57.5	1	н			"		Χ
11141-16-5	Aroclor-1232	< 63.8		μg/kg dry	63.8	41.0	1				"		Χ
53469-21-9	Aroclor-1242	< 63.8		μg/kg dry	63.8	38.4	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	1,940		μg/kg dry	63.8	28.0	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	4,730		μg/kg dry	63.8	37.3	1				"		Χ
11096-82-5	Aroclor-1260	2,170		μg/kg dry	63.8	39.5	1				"		Χ
37324-23-5	Aroclor-1262	< 63.8		μg/kg dry	63.8	59.4	1	п			"		Х
11100-14-4	Aroclor-1268	< 63.8		μg/kg dry	63.8	26.3	1	п			"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		п		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %		u	•		"		
General (Chemistry Parameters												
	% Solids	92.0		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

Sample Id 8/9-C-3'' SB84794				<u>Client P</u> 211304.00			Matrix Concrete		ection Date 3-Feb-14 14			ceived Feb-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	tted Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 66.5		μg/kg dry	66.5	49.7	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Х
11104-28-2	Aroclor-1221	< 66.5		μg/kg dry	66.5	59.9	1	п			"		Х
11141-16-5	Aroclor-1232	< 66.5		μg/kg dry	66.5	42.7	1				"		Х
53469-21-9	Aroclor-1242	< 66.5		μg/kg dry	66.5	40.0	1	п			"		Χ
12672-29-6	Aroclor-1248 [2C]	136		μg/kg dry	66.5	29.2	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	253		μg/kg dry	66.5	38.9	1	п			"		Χ
11096-82-5	Aroclor-1260	76.5		μg/kg dry	66.5	41.2	1	п			"		Χ
37324-23-5	Aroclor-1262	< 66.5		μg/kg dry	66.5	61.9	1	п			"		Χ
11100-14-4	Aroclor-1268	< 66.5		μg/kg dry	66.5	27.4	1	и			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	0 %		и	•	н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	0 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	95			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	0 %		· ·			"		
General C	Chemistry Parameters												

19-Feb-14 19-Feb-14

DT

1403718

% Solids

Sample Identification 8/9-C-6''D SB84794-10			Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete		Collection Date/Time 18-Feb-14 14:40			ceived Feb-14		
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 60.1		μg/kg dry	60.1	44.9	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	Χ
11104-28-2	Aroclor-1221	< 60.1		μg/kg dry	60.1	54.2	1	п			"		Χ
11141-16-5	Aroclor-1232	< 60.1		μg/kg dry	60.1	38.6	1				"		Χ
53469-21-9	Aroclor-1242	< 60.1		μg/kg dry	60.1	36.2	1				"		Χ
12672-29-6	Aroclor-1248	< 60.1		μg/kg dry	60.1	31.3	1	п			"		Χ
11097-69-1	Aroclor-1254	< 60.1		μg/kg dry	60.1	50.1	1	п			"		Х
11096-82-5	Aroclor-1260	< 60.1		μg/kg dry	60.1	37.3	1	п			"		Х
37324-23-5	Aroclor-1262	< 60.1		μg/kg dry	60.1	56.0	1	и			"		Х
11100-14-4	Aroclor-1268	< 60.1		μg/kg dry	60.1	24.8	1				"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		и	•		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	90			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %		н			"		
General (Chemistry Parameters												
	% Solids	95.4		%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	

Semivolatile Organic Compounds by GC - Quality Control

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPI Lim
atch 1403715 - SW846 3540C										
Blank (1403715-BLK1)					Pre	nared: 19-Feb	-14 Analyzed	· 20-Feb-14		
Aroclor-1016	< 19.7		μg/kg wet	19.7	110	parca. 10 1 cb	14 Analyzea	. 2010014		
Aroclor-1016 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1221	< 19.7		μg/kg wet	19.7						
Aroclor-1221 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1232	< 19.7		μg/kg wet	19.7						
Aroclor-1232 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1242	< 19.7		μg/kg wet	19.7						
Aroclor-1242 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1248	< 19.7		μg/kg wet	19.7						
Aroclor-1248 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1254	< 19.7		μg/kg wet	19.7						
Aroclor-1254 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1260	< 19.7		μg/kg wet	19.7						
Aroclor-1260 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1262	< 19.7		μg/kg wet	19.7						
Aroclor-1262 [2C]	< 19.7		μg/kg wet	19.7						
Aroclor-1268	< 19.7		μg/kg wet	19.7						
Aroclor-1268 [2C]	< 19.7		μg/kg wet	19.7						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.8		μg/kg wet		19.7		70	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.8		μg/kg wet		19.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.8		μg/kg wet		19.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.8		μg/kg wet		19.7		80	30-150		
LCS (1403715-BS1)					Pre	pared: 19-Feb	-14 Analyzed	: 20-Feb-14		
Aroclor-1016	211		μg/kg wet	19.6	245		86	40-140		
Aroclor-1016 [2C]	227		μg/kg wet	19.6	245		93	40-140		
Aroclor-1260	238		μg/kg wet	19.6	245		97	40-140		
Aroclor-1260 [2C]	224		μg/kg wet	19.6	245		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.6		μg/kg wet		19.6		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.6		μg/kg wet		19.6		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.6		μg/kg wet		19.6		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.6		μg/kg wet		19.6		95	30-150		
LCS Dup (1403715-BSD1)					Pre	pared: 19-Feb	-14 Analyzed	: 20-Feb-14		
Aroclor-1016	210		μg/kg wet	19.8	247		85	40-140	0.9	30
Aroclor-1016 [2C]	229		μg/kg wet	19.8	247		93	40-140	0.00002	30
Aroclor-1260	248		μg/kg wet	19.8	247		100	40-140	3	30
Aroclor-1260 [2C]	224		μg/kg wet	19.8	247		91	40-140	0.9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.8		μg/kg wet		19.8		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.8		μg/kg wet		19.8		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.7		μg/kg wet		19.8		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.8		μg/kg wet		19.8		95	30-150		

Notes and Definitions

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

<u>Method Detection Limit (MDL)</u>: The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: Rebecca Merz



CHAIN OF CUSTODY RECORL

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Rush TAT - Date Needed: 48 har 74.

otherwise instructed.	Samples disposed of after 60 days unless	Min. 24-hour notification needed for rushes

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken ☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen	Condition upon receipt: Custod										
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		×	7		X4	0	1040	18/14	2/	1-6-14"	110-49-45
State-specific reporting standards:		80	-	-	M	Ty	Time:	Date:		Sample Id:	Lab Id:
Other LIER II. LIER IV.		182			atrix	ре					
*		35	lear (mber	OA V			osite	C=Composite	G=Grab C	
Standard DNo QC DDQA*		400	Glas		\ial:						
OA/OC Reporting Level			S		3		ge A=Aır	SL=Sludge X3=	SU=Soil	urface Water X2=	VI= (010) SW=SI
MA DEP MCP CAM Report: Yes \(\text{No.} \)	Analyses:		Containers:	Con			S	2	oundwa	GW=G	\simeq
QA/QC Reporting Notes: * additional charges may apply	List preservative code below:	List	7=CH ₃ OH	7=C	6=Ascorbic Acid		5=NaOH 11=	4=HNO ₃ 10=H ₃ PO ₄	3=H ₂ SO ₄ ed Water) ₃ 2=HCl ' 9= Deioniz	1=Na2S2O3 $8=NaHSO4$
2 H. Homande 2	Sampler(s): 6, Knczynsh	Sam		RQN:	211304	P.O. No.: C	P.O.1		19-161C	860- 278-	Project Mgr
State: C+	Location: West Mutter	Loca							560,	of CT OF	Winds
Reservoir #6 (Bush	Site Name: MOC - Who	Site	port)	R_{e}	Same as	1			North	601 Alin Rd,	2/4
,0000	Project No.: 211304200	_ Proj		- 5		е То:_	Invoice To:		1	En coomen	Report To:

Report Date: 18-Mar-14 16:39



☐ Re-Issued Report □ Revised Report

HANIBAL TECHNOLOGY

Laboratory Report

TRC

Project: MDC - Reservoir #6 (Basin 1)-West Hartford, CT 21 Griffin Road North

Windsor, CT 06095 Project #: 211304.0000.0000 Attn: Erik Plimpton

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
SB85918-01	EJ1	Caulk	10-Mar-14 10:55	13-Mar-14 15:50
SB85918-02	EJ2	Caulk	10-Mar-14 10:59	13-Mar-14 15:50
SB85918-03	EJ3	Caulk	10-Mar-14 11:03	13-Mar-14 15:50
SB85918-04	T1	Caulk	10-Mar-14 10:45	13-Mar-14 15:50
SB85918-05	T2	Caulk	10-Mar-14 10:55	13-Mar-14 15:50
SB85918-06	Т3	Caulk	10-Mar-14 10:50	13-Mar-14 15:50
SB85918-07	C1	Cork	10-Mar-14 11:10	13-Mar-14 15:50
SB85918-08	C2	Cork	10-Mar-14 11:15	13-Mar-14 15:50
SB85918-09	C3	Cork	10-Mar-14 11:18	13-Mar-14 15:50
SB85918-10	0-G-6"	Concrete	10-Mar-14 13:15	13-Mar-14 15:50
SB85918-11	0-G-12"	Concrete	10-Mar-14 13:20	13-Mar-14 15:50
SB85918-12	0-G-18"	Concrete	10-Mar-14 13:23	13-Mar-14 15:50
SB85918-13	0-G-24"	Concrete	10-Mar-14 13:27	13-Mar-14 15:50
SB85918-14	0-G-6"D	Concrete	10-Mar-14 13:40	13-Mar-14 15:50
SB85918-15	0-G-12"D	Concrete	10-Mar-14 13:47	13-Mar-14 15:50
SB85918-16	18-G-6"	Concrete	11-Mar-14 10:35	13-Mar-14 15:50
SB85918-17	18-G-12"	Concrete	11-Mar-14 10:21	13-Mar-14 15:50
SB85918-18	18-G-18"	Concrete	11-Mar-14 10:18	13-Mar-14 15:50
SB85918-19	18-G-24"	Concrete	11-Mar-14 10:15	13-Mar-14 15:50
SB85918-20	18-G-6"D	Concrete	11-Mar-14 10:45	13-Mar-14 15:50
SB85918-21	18-G-12"D	Concrete	11-Mar-14 10:40	13-Mar-14 15:50
SB85918-22	3/4-G-6"	Concrete	10-Mar-14 14:00	13-Mar-14 15:50
SB85918-23	3/4-G-12"	Concrete	10-Mar-14 14:05	13-Mar-14 15:50
SB85918-24	3/4-G-18"	Concrete	10-Mar-14 14:08	13-Mar-14 15:50
SB85918-25	3/4-G-24"	Concrete	10-Mar-14 14:11	13-Mar-14 15:50
SB85918-26	3/4-G-6"D	Concrete	10-Mar-14 14:17	13-Mar-14 15:50
SB85918-27	3/4-G-12"D	Concrete	10-Mar-14 14:30	13-Mar-14 15:50
SB85918-28	7/8-G-6"	Concrete	11-Mar-14 09:15	13-Mar-14 15:50
SB85918-29	7/8-G-12"	Concrete	11-Mar-14 09:13	13-Mar-14 15:50
SB85918-30	7/8-G-18"	Concrete	11-Mar-14 09:10	13-Mar-14 15:50
SB85918-31	7/8-G-24"	Concrete	11-Mar-14 09:07	13-Mar-14 15:50
SB85918-32	7/8-G-6"D	Concrete	11-Mar-14 09:25	13-Mar-14 15:50
SB85918-33	7/8-G-12"D	Concrete	11-Mar-14 09:20	13-Mar-14 15:50
SB85918-34	13/14-G-6"	Concrete	11-Mar-14 13:14	13-Mar-14 15:50
SB85918-35	13/14-G-12"	Concrete	11-Mar-14 13:11	13-Mar-14 15:50
SB85918-36	13/14-G-18"	Concrete	11-Mar-14 13:08	13-Mar-14 15:50
SB85918-37	13/14-G-24"	Concrete	11-Mar-14 13:05	13-Mar-14 15:50

SB85918-38	13/14-G-6"D	Concrete	11-Mar-14 13:27	13-Mar-14 15:50
SB85918-39	13/14-G-12"D	Concrete	11-Mar-14 13:20	13-Mar-14 15:50
SB85918-40	17/18-G-6"	Concrete	11-Mar-14 11:02	13-Mar-14 15:50
SB85918-41	17/18-G-12"	Concrete	11-Mar-14 10:58	13-Mar-14 15:50
SB85918-42	17/18-G-18"	Concrete	11-Mar-14 10:54	13-Mar-14 15:50
SB85918-43	17/18-G-24"	Concrete	11-Mar-14 10:50	13-Mar-14 15:50
SB85918-44	17/18-G-6"D	Concrete	11-Mar-14 11:06	13-Mar-14 15:50
SB85918-45	17/18-G-12"D	Concrete	11-Mar-14 11:08	13-Mar-14 15:50
SB85918-46	7/8-F-0"	Concrete	11-Mar-14 09:50	13-Mar-14 15:50
SB85918-47	7/8-F-3"	Concrete	11-Mar-14 09:47	13-Mar-14 15:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Icolo Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 61 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols Laboratory Analysis QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc. Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 1)-West Project Number: 211304.0000.0000

Hartford, CT Sampling Date(s):

Laboratory Sample ID(s): 3/10/2014 through 3/11/2014 SB85918-01 through SB85918-47

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	√	Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓	Yes	No
1B	<u>VPH and EPH methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?		Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓	Yes	No
3	Were samples received at an appropriate temperature?	✓	Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?		Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?		Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓	Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓	Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

> Nicole Leja Laboratory Director

Micole Leja

Date: 3/18/2014

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of \pm 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1405508-MS1 Source: SB85918-32

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1016 [2C] Aroclor-1260 Aroclor-1260 [2C]

1405508-MSD1 Source: SB85918-32

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Aroclor-1016 Aroclor-1016 [2C] Aroclor-1260 Aroclor-1260 [2C]

Samples:

SB85918-01 EJ1

SW846 8082A

Samples:

SB85918-01

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB85918-02

F 12

EJ1

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB85918-03

EJ3

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB85918-05

T2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB85918-07

C1

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB85918-25

3/4-G-24"

SW846 8082A

Samples:

SB85918-25 3/4-G-24"

Difference between the two GC columns is greater than 40%.

Aroclor-1248 [2C]

SB85918-30 7/8-G-18"

Difference between the two GC columns is greater than 40%.

Aroclor-1254 Aroclor-1260

SB85918-41 17/18-G-12"

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB85918-47 7/8-F-3"

Difference between the two GC columns is greater than 40%.

Aroclor-1254

Sample Acceptance Check Form

Client:	TRC - Windsor, CT			
Project:	MDC - Reservoir #6 (Basin 1)-West Hartford, CT / 211304.0000.0000			
Work Order:	SB85918			
Sample(s) received on:	3/13/2014			
Received by:	Jessica Hoffman			
The following outlines th	ne condition of samples for the attached Chain of Custody upon receipt.			
		Yes	<u>No</u>	<u>N/A</u>
1. Were custody se	als present?		✓	
2. Were custody se	als intact?			\checkmark
3. Were samples re	ceived at a temperature of $\leq 6^{\circ}$ C?	✓		
4. Were samples co	ooled on ice upon transfer to laboratory representative?		\checkmark	
5. Were samples re	frigerated upon transfer to laboratory representative?	✓		
6. Were sample con	ntainers received intact?	✓		
	roperly labeled (labels affixed to sample containers and include sample ID, site project number and the collection date)?			
8. Were samples ac	ecompanied by a Chain of Custody document?	\checkmark		
include sample I	ustody document include proper, full, and complete documentation, which shall D, site location, and/or project number, date and time of collection, collector's name, e, sample matrix and any special remarks concerning the sample?		$ \checkmark $	
10. Did sample cont	ainer labels agree with Chain of Custody document?	✓		
11. Were samples re	ceived within method-specific holding times?	✓		

Sample Identification EJ1 SB85918-01			Client F 211304.0	Project # 000.0000		<u>Matrix</u> Caulk		ection Date -Mar-14 10			<u>ceived</u> Mar-14		
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls		GS1										
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 1430000	D	μg/kg dry	1430000	1070000	5000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 1430000	D	μg/kg dry	1430000	1290000	5000	н			"		Χ
11141-16-5	Aroclor-1232	< 1430000	D	μg/kg dry	1430000	917000	5000				"		Χ
53469-21-9	Aroclor-1242	< 1430000	D	μg/kg dry	1430000	859000	5000				"		Χ
12672-29-6	Aroclor-1248	341,000,000	D	μg/kg dry	1430000	743000	5000	ı			"		Χ
11097-69-1	Aroclor-1254 [2C]	221,000,000	D	μg/kg dry	1430000	836000	5000				"		Χ
11096-82-5	Aroclor-1260	< 1430000	D	μg/kg dry	1430000	886000	5000				"		Х
37324-23-5	Aroclor-1262	< 1430000	D	μg/kg dry	1430000	1330000	5000	u			"		Χ
11100-14-4	Aroclor-1268	< 1430000	D	μg/kg dry	1430000	589000	5000	п			"		Х
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %		п		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		u		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %				н	"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405549

% Solids

Sample Id EJ2 SB85918	dentification -02			Client F 211304.0	Project # 000.0000		<u>Matrix</u> Caulk		ection Date -Mar-14 10	_		<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 992000	D	μg/kg dry	992000	741000	5000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 992000	D	μg/kg dry	992000	894000	5000	н			"		Х
11141-16-5	Aroclor-1232	< 992000	D	μg/kg dry	992000	637000	5000	п		п	"		Х
53469-21-9	Aroclor-1242	< 992000	D	μg/kg dry	992000	597000	5000				"		Х
12672-29-6	Aroclor-1248	< 992000	D	μg/kg dry	992000	516000	5000				"		Х
11097-69-1	Aroclor-1254 [2C]	158,000,000	D	μg/kg dry	992000	581000	5000				"		Х
11096-82-5	Aroclor-1260	< 992000	D	μg/kg dry	992000	615000	5000	п			"		Х
37324-23-5	Aroclor-1262	< 992000	D	μg/kg dry	992000	924000	5000				"		Х
11100-14-4	Aroclor-1268	< 992000	D	μg/kg dry	992000	409000	5000	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %		II .		п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		п			"		

14-Mar-14 14-Mar-14

DT

1405549

General Chemistry Parameters % Solids

Sample Io EJ3 SB85918	dentification -03			Client P 211304.0			<u>Matrix</u> Caulk		ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 962000	D	μg/kg dry	962000	719000	5000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 962000	D	μg/kg dry	962000	867000	5000	п		н	"		Χ
11141-16-5	Aroclor-1232	< 962000	D	μg/kg dry	962000	618000	5000			н	"		Χ
53469-21-9	Aroclor-1242	< 962000	D	μg/kg dry	962000	579000	5000			н	"		Χ
12672-29-6	Aroclor-1248	238,000,000	D	μg/kg dry	962000	500000	5000			н	"		Χ
11097-69-1	Aroclor-1254 [2C]	187,000,000	D	μg/kg dry	962000	563000	5000			н	"		Χ
11096-82-5	Aroclor-1260	< 962000	D	μg/kg dry	962000	596000	5000			н	"		Χ
37324-23-5	Aroclor-1262	< 962000	D	μg/kg dry	962000	896000	5000			н			Χ
11100-14-4	Aroclor-1268	< 962000	D	μg/kg dry	962000	397000	5000				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %		п		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %			н		"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %		u			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %					"		

14-Mar-14 14-Mar-14

DT

1405549

General Chemistry Parameters % Solids

Sample Id T1 SB85918-	dentification -04			<u>Client P</u> 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Caulk		ection Date Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 301		μg/kg dry	301	225	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 301		μg/kg dry	301	271	1				"		Χ
11141-16-5	Aroclor-1232	< 301		μg/kg dry	301	193	1	п			"		Χ
53469-21-9	Aroclor-1242	< 301		μg/kg dry	301	181	1			п	"		Χ
12672-29-6	Aroclor-1248	2,200		μg/kg dry	301	157	1			и	"		Χ
11097-69-1	Aroclor-1254	< 301		μg/kg dry	301	251	1			и	"		Χ
11096-82-5	Aroclor-1260	< 301		μg/kg dry	301	187	1	и		и	"		Х
37324-23-5	Aroclor-1262	< 301		μg/kg dry	301	281	1	и		и	"		Χ
11100-14-4	Aroclor-1268	< 301		μg/kg dry	301	124	1	11			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		as .		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-15	0 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-15	0 %				ı	"		
General C	hemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405549

% Solids

Sample Io T2 SB85918	dentification -05			Client P 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Caulk	-	ection Date 0-Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 29700	D	μg/kg dry	29700	22200	100	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 29700	D	μg/kg dry	29700	26800	100	ı			"		Χ
11141-16-5	Aroclor-1232	< 29700	D	μg/kg dry	29700	19100	100	ı			"		Χ
53469-21-9	Aroclor-1242	< 29700	D	μg/kg dry	29700	17900	100	ı			"		Χ
12672-29-6	Aroclor-1248 [2C]	1,620,000	D	μg/kg dry	29700	13000	100	ı			"		Χ
11097-69-1	Aroclor-1254	< 29700	D	μg/kg dry	29700	24800	100	ı			"		Χ
11096-82-5	Aroclor-1260	< 29700	D	μg/kg dry	29700	18400	100	ı			"		Χ
37324-23-5	Aroclor-1262	< 29700	D	μg/kg dry	29700	27700	100	ı			"		Χ
11100-14-4	Aroclor-1268	< 29700	D	μg/kg dry	29700	12300	100	и			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %					"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %		н			"		

14-Mar-14 14-Mar-14

DT

1405549

General Chemistry Parameters % Solids

Sample I T3 SB85918	Identification 3-06			Client P 211304.0			<u>Matrix</u> Caulk	·	ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result I	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	d by method SW846 3540C												
12674-11-2	Aroclor-1016	< 311		μg/kg dry	311	233	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 311		μg/kg dry	311	281	1				"		Χ
11141-16-5	Aroclor-1232	< 311		μg/kg dry	311	200	1						Χ
53469-21-9	Aroclor-1242	< 311		μg/kg dry	311	187	1	н					Х
12672-29-6	Aroclor-1248 [2C]	5,700		μg/kg dry	311	137	1				"		Х
11097-69-1	Aroclor-1254 [2C]	5,740		μg/kg dry	311	182	1	н			"		Х
11096-82-5	Aroclor-1260 [2C]	872		μg/kg dry	311	156	1				"		Х
37324-23-5	Aroclor-1262	< 311		μg/kg dry	311	290	1				"		Х
11100-14-4	Aroclor-1268	< 311		μg/kg dry	311	128	1				"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	105			30-15	0 %				"	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-15	0 %		н			"		
General (Chemistry Parameters												
	% Solids	43.5		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	

Sample Id C1 SB85918-	lentification -07			Client P 211304.0			<u>Matrix</u> Cork		ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 710000	D	μg/kg dry	710000	530000	1000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 710000	D	μg/kg dry	710000	640000	1000	п			"		Χ
11141-16-5	Aroclor-1232	< 710000	D	μg/kg dry	710000	456000	1000				"		Χ
53469-21-9	Aroclor-1242	< 710000	D	μg/kg dry	710000	427000	1000				"		Χ
12672-29-6	Aroclor-1248	52,700,000	D	μg/kg dry	710000	369000	1000				"		Χ
11097-69-1	Aroclor-1254	< 710000	D	μg/kg dry	710000	592000	1000				"		Χ
11096-82-5	Aroclor-1260	< 710000	D	μg/kg dry	710000	440000	1000				"		Χ
37324-23-5	Aroclor-1262	< 710000	D	μg/kg dry	710000	661000	1000				"		Χ
11100-14-4	Aroclor-1268	< 710000	D	μg/kg dry	710000	293000	1000	п			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-15	0 %		n			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-15	0 %					"		
General C	hemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405549

% Solids

Sample I C2 SB85918	dentification 3-08			Client P 211304.0			<u>Matrix</u> Cork		ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	d by method SW846 3540C												
12674-11-2	Aroclor-1016	< 888		μg/kg dry	888	663	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 888		μg/kg dry	888	800	1			н	"		Χ
11141-16-5	Aroclor-1232	< 888		μg/kg dry	888	570	1				"		Х
53469-21-9	Aroclor-1242	< 888		μg/kg dry	888	534	1				"		Х
12672-29-6	Aroclor-1248 [2C]	6,080		μg/kg dry	888	390	1	п			"		Х
11097-69-1	Aroclor-1254 [2C]	14,600		μg/kg dry	888	520	1	п			"		Χ
11096-82-5	Aroclor-1260	< 888		μg/kg dry	888	551	1	п			"		Χ
37324-23-5	Aroclor-1262	< 888		μg/kg dry	888	827	1	и			"		Х
11100-14-4	Aroclor-1268	< 888		μg/kg dry	888	366	1	п			"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	50 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-15	50 %		н			"		
General (Chemistry Parameters												
	% Solids	19.2		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	

Sample I C3 SB85918	dentification 3-09			Client P 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Cork	·	ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	d by method SW846 3540C												
12674-11-2	Aroclor-1016	< 535		μg/kg dry	535	399	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 535		μg/kg dry	535	482	1	н			"		Χ
11141-16-5	Aroclor-1232	< 535		μg/kg dry	535	343	1				"		Χ
53469-21-9	Aroclor-1242	< 535		μg/kg dry	535	322	1	п			"		Χ
12672-29-6	Aroclor-1248	2,830		μg/kg dry	535	278	1				"		Χ
11097-69-1	Aroclor-1254	< 535		μg/kg dry	535	446	1	н			"		Χ
11096-82-5	Aroclor-1260 [2C]	< 535		μg/kg dry	535	268	1				"		Х
37324-23-5	Aroclor-1262	< 535		μg/kg dry	535	498	1				"		Χ
11100-14-4	Aroclor-1268	< 535		μg/kg dry	535	221	1	п		н	"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-15	50 %		н	•	п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-15	50 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		н		п	"		
General (Chemistry Parameters												
	% Solids	28.7		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	

Sample I- 0-G-6'' SB85918	dentification			Client P 211304.00			Matrix Concrete	· · · · · · · · · · · · · · · · · · ·	ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result I	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.0		μg/kg dry	23.0	17.2	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 23.0		μg/kg dry	23.0	20.7	1				"		Χ
11141-16-5	Aroclor-1232	< 23.0		μg/kg dry	23.0	14.8	1				"		Х
53469-21-9	Aroclor-1242	< 23.0		μg/kg dry	23.0	13.8	1				"		Х
12672-29-6	Aroclor-1248 [2C]	107		μg/kg dry	23.0	10.1	1				"		Х
11097-69-1	Aroclor-1254 [2C]	543		μg/kg dry	23.0	13.5	1				"		Х
11096-82-5	Aroclor-1260	< 23.0		μg/kg dry	23.0	14.3	1				"		Х
37324-23-5	Aroclor-1262	< 23.0		μg/kg dry	23.0	21.4	1				"		Х
11100-14-4	Aroclor-1268	< 23.0		μg/kg dry	23.0	9.49	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150) %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150) %				п	"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150) %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150) %			•	п	"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405549

% Solids

Sample II 0-G-12" SB85918				Client P 211304.0	<u>Project #</u> 000.0000		<u>Matrix</u> Concrete		ection Date)-Mar-14 13			ceived Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	tile Organic Compounds by (GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.6		μg/kg dry	22.6	16.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 22.6		μg/kg dry	22.6	20.3	1				"		Χ
11141-16-5	Aroclor-1232	< 22.6		μg/kg dry	22.6	14.5	1				"		Χ
53469-21-9	Aroclor-1242	< 22.6		μg/kg dry	22.6	13.6	1				"		Х
12672-29-6	Aroclor-1248 [2C]	88.1		μg/kg dry	22.6	9.91	1				"		Х
11097-69-1	Aroclor-1254 [2C]	419		μg/kg dry	22.6	13.2	1						Х
11096-82-5	Aroclor-1260	< 22.6		μg/kg dry	22.6	14.0	1			ıı			Х
37324-23-5	Aroclor-1262	< 22.6		μg/kg dry	22.6	21.0	1				"		Х
11100-14-4	Aroclor-1268	< 22.6		μg/kg dry	22.6	9.31	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		н		ıı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		n		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	50			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	60			30-15	50 %		н		н	"		
General C	Chemistry Parameters												
	% Solids	88.1		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	

Sample I 0-G-18" SB85918				Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete	-	ection Date 0-Mar-14 13	,		<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.6		μg/kg dry	21.6	16.2	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 21.6		μg/kg dry	21.6	19.5	1				"		Χ
11141-16-5	Aroclor-1232	< 21.6		μg/kg dry	21.6	13.9	1			п			Χ
53469-21-9	Aroclor-1242	< 21.6		μg/kg dry	21.6	13.0	1			и			Х
12672-29-6	Aroclor-1248	< 21.6		μg/kg dry	21.6	11.3	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	445		μg/kg dry	21.6	12.7	1			и	"		Χ
11096-82-5	Aroclor-1260	< 21.6		μg/kg dry	21.6	13.4	1			"	"		Χ
37324-23-5	Aroclor-1262	< 21.6		μg/kg dry	21.6	20.2	1			u	"		Х
11100-14-4	Aroclor-1268	< 21.6		μg/kg dry	21.6	8.93	1				"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	50 %		н		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	55			30-15	50 %				п			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-15	50 %		н	•	ı	"		
General (Chemistry Parameters												
	% Solids	91.8		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Io 0-G-24" SB85918	-13			Client P 211304.0			Matrix Concrete		ection Date -Mar-14 13			ceived Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.9		μg/kg dry	21.9	16.3	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 21.9		μg/kg dry	21.9	19.7	1				"		Χ
11141-16-5	Aroclor-1232	< 21.9		μg/kg dry	21.9	14.0	1				"		Χ
53469-21-9	Aroclor-1242	< 21.9		μg/kg dry	21.9	13.2	1	п			"		Х
12672-29-6	Aroclor-1248	409		μg/kg dry	21.9	11.4	1	п			"		Х
11097-69-1	Aroclor-1254	554		μg/kg dry	21.9	18.2	1	п			"		Χ
11096-82-5	Aroclor-1260	< 21.9		μg/kg dry	21.9	13.6	1	п			"		Х
37324-23-5	Aroclor-1262	< 21.9		μg/kg dry	21.9	20.4	1				"		Х
11100-14-4	Aroclor-1268	< 21.9		μg/kg dry	21.9	9.02	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		u		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-15	0 %				н	"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample Io 0-G-6''D SB85918	-14			Client P 211304.0			Matrix Concrete		ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC .											
	tted Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.2		μg/kg dry	21.2	15.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 21.2		μg/kg dry	21.2	19.1	1	и			"		Х
11141-16-5	Aroclor-1232	< 21.2		μg/kg dry	21.2	13.6	1	и			"		Х
53469-21-9	Aroclor-1242	< 21.2		μg/kg dry	21.2	12.8	1	и			"		Х
12672-29-6	Aroclor-1248	< 21.2		μg/kg dry	21.2	11.0	1				"		Х
11097-69-1	Aroclor-1254	< 21.2		μg/kg dry	21.2	17.7	1				"		Х
11096-82-5	Aroclor-1260	< 21.2		μg/kg dry	21.2	13.2	1	и			"		Х
37324-23-5	Aroclor-1262	< 21.2		μg/kg dry	21.2	19.8	1				"		Х
11100-14-4	Aroclor-1268	< 21.2		μg/kg dry	21.2	8.75	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-15	i0 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-15	50 %		н		"	"		
General C	Chemistry Parameters												
	% Solids	94.2		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 0-G-12''I SB85918-				Client P 211304.0	_		Matrix Concrete		ection Date -Mar-14 13	,		ceived Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
	ile Organic Compounds by C	GC											
	tted Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 20.9		μg/kg dry	20.9	15.6	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 20.9		μg/kg dry	20.9	18.8	1	ı		и	"		Х
11141-16-5	Aroclor-1232	< 20.9		μg/kg dry	20.9	13.4	1				"		Χ
53469-21-9	Aroclor-1242	< 20.9		μg/kg dry	20.9	12.6	1	ı			"		Х
12672-29-6	Aroclor-1248	< 20.9		μg/kg dry	20.9	10.9	1	ı			"		Х
11097-69-1	Aroclor-1254 [2C]	31.3		μg/kg dry	20.9	12.2	1	ı		п	"		Χ
11096-82-5	Aroclor-1260	< 20.9		μg/kg dry	20.9	13.0	1	ı		и	"		Х
37324-23-5	Aroclor-1262	< 20.9		μg/kg dry	20.9	19.5	1	ı		п			Х
11100-14-4	Aroclor-1268	< 20.9		μg/kg dry	20.9	8.62	1	п		ı	"		Χ
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	50 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	65			30-15	50 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-15	50 %		п		u	"		
General C	Chemistry Parameters												
	% Solids	94.6		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 18-G-6" SB85918	dentification			<u>Client P</u> 211304.0			Matrix Concrete	·	ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.8		μg/kg dry	22.8	17.0	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 22.8		μg/kg dry	22.8	20.5	1				"		Х
11141-16-5	Aroclor-1232	< 22.8		μg/kg dry	22.8	14.6	1	п					Х
53469-21-9	Aroclor-1242	< 22.8		μg/kg dry	22.8	13.7	1						Х
12672-29-6	Aroclor-1248	< 22.8		μg/kg dry	22.8	11.8	1						Х
11097-69-1	Aroclor-1254 [2C]	130		μg/kg dry	22.8	13.3	1				"		Χ
11096-82-5	Aroclor-1260	< 22.8		μg/kg dry	22.8	14.1	1	п					Х
37324-23-5	Aroclor-1262	< 22.8		μg/kg dry	22.8	21.2	1						Χ
11100-14-4	Aroclor-1268	< 22.8		μg/kg dry	22.8	9.40	1	п			"		Χ
Surrogate rec	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-15	i0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-15	60 %					"		
General C	Chemistry Parameters												
	% Solids	87.7		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 18-G-12'' SB85918				Client P 211304.0			Matrix Concrete		ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.3		μg/kg dry	21.3	15.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 21.3		μg/kg dry	21.3	19.2	1			п	"		Х
11141-16-5	Aroclor-1232	< 21.3		μg/kg dry	21.3	13.7	1			п	"		Х
53469-21-9	Aroclor-1242	< 21.3		μg/kg dry	21.3	12.8	1			и	"		Х
12672-29-6	Aroclor-1248 [2C]	36.2		μg/kg dry	21.3	9.34	1			и	"		Х
11097-69-1	Aroclor-1254	< 21.3		μg/kg dry	21.3	17.7	1	II .		ıı	"		Χ
11096-82-5	Aroclor-1260	< 21.3		μg/kg dry	21.3	13.2	1			п	"		Х
37324-23-5	Aroclor-1262	< 21.3		μg/kg dry	21.3	19.8	1	II .		ıı	•		Χ
11100-14-4	Aroclor-1268	< 21.3		μg/kg dry	21.3	8.77	1	и		н	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		N .	•	ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-15	i0 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-15	60 %				н	"		
General C	Chemistry Parameters												
	% Solids	93.4		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 18-G-18'' SB85918				Client P 211304.0			Matrix Concrete	·	ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	tted Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.7		μg/kg dry	22.7	16.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 22.7		μg/kg dry	22.7	20.4	1	II .		п	"		Х
11141-16-5	Aroclor-1232	< 22.7		μg/kg dry	22.7	14.6	1			и	"		Х
53469-21-9	Aroclor-1242	< 22.7		μg/kg dry	22.7	13.6	1			и	"		Х
12672-29-6	Aroclor-1248 [2C]	42.0		μg/kg dry	22.7	9.96	1	II .		п	"		Х
11097-69-1	Aroclor-1254 [2C]	53.3		μg/kg dry	22.7	13.3	1	II .		ıı	"		Χ
11096-82-5	Aroclor-1260	< 22.7		μg/kg dry	22.7	14.1	1	II .		п	"		Х
37324-23-5	Aroclor-1262	< 22.7		μg/kg dry	22.7	21.1	1	II .		ıı			Χ
11100-14-4	Aroclor-1268	< 22.7		μg/kg dry	22.7	9.35	1	п		н	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75			30-15	50 %		н		ı	"		
General C	Chemistry Parameters												
	% Solids	87.7		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 18-G-24' SB85918				Client P 211304.0			<u>Matrix</u> Concrete	·	ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.0		μg/kg dry	22.0	16.5	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Х
11104-28-2	Aroclor-1221	< 22.0		μg/kg dry	22.0	19.9	1			ıı			Χ
11141-16-5	Aroclor-1232	< 22.0		μg/kg dry	22.0	14.2	1	II .		ıı			Χ
53469-21-9	Aroclor-1242	< 22.0		μg/kg dry	22.0	13.3	1	II .		ıı			Χ
12672-29-6	Aroclor-1248	41.9		μg/kg dry	22.0	11.5	1	II .		ıı			Χ
11097-69-1	Aroclor-1254	< 22.0		μg/kg dry	22.0	18.4	1	II .		ıı			Χ
11096-82-5	Aroclor-1260	< 22.0		μg/kg dry	22.0	13.7	1			и			Х
37324-23-5	Aroclor-1262	< 22.0		μg/kg dry	22.0	20.5	1	II .		ıı			Χ
11100-14-4	Aroclor-1268	< 22.0		μg/kg dry	22.0	9.09	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	55			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-15	50 %				н	"		
General C	Chemistry Parameters												
	% Solids	89.4		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Io 18-G-6''I SB85918				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.3		μg/kg dry	21.3	15.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	Χ
11104-28-2	Aroclor-1221	< 21.3		μg/kg dry	21.3	19.2	1				"		Χ
11141-16-5	Aroclor-1232	< 21.3		μg/kg dry	21.3	13.7	1	н		"	"		Χ
53469-21-9	Aroclor-1242	< 21.3		μg/kg dry	21.3	12.8	1				"		Χ
12672-29-6	Aroclor-1248	< 21.3		μg/kg dry	21.3	11.1	1				"		Χ
11097-69-1	Aroclor-1254	< 21.3		μg/kg dry	21.3	17.7	1				"		Х
11096-82-5	Aroclor-1260	< 21.3		μg/kg dry	21.3	13.2	1	п			"		Х
37324-23-5	Aroclor-1262	< 21.3		μg/kg dry	21.3	19.8	1	п			"		Х
11100-14-4	Aroclor-1268	< 21.3		μg/kg dry	21.3	8.78	1				"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		н			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	55			30-15	50 %		II .			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-15	50 %		11			"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample Id 18-G-12'' SB85918				Client P 211304.0			Matrix Concrete	·	ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.4		μg/kg dry	23.4	17.5	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405508	Х
11104-28-2	Aroclor-1221	< 23.4		μg/kg dry	23.4	21.1	1	II .		п	"		Х
11141-16-5	Aroclor-1232	< 23.4		μg/kg dry	23.4	15.0	1			и	"		Х
53469-21-9	Aroclor-1242	< 23.4		μg/kg dry	23.4	14.1	1	II .		п	"		Х
12672-29-6	Aroclor-1248	< 23.4		μg/kg dry	23.4	12.2	1	II .		п	"		Х
11097-69-1	Aroclor-1254 [2C]	41.0		μg/kg dry	23.4	13.7	1	II .		ıı	"		Χ
11096-82-5	Aroclor-1260	< 23.4		μg/kg dry	23.4	14.5	1	II .		п	"		Х
37324-23-5	Aroclor-1262	< 23.4		μg/kg dry	23.4	21.8	1	II .		ıı			Χ
11100-14-4	Aroclor-1268	< 23.4		μg/kg dry	23.4	9.67	1	п		н	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	i0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	60 %				н	"		
General C	Chemistry Parameters												
	% Solids	85.1		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 3/4-G-6'' SB85918				Client P 211304.0			Matrix Concrete		ection Date -Mar-14 14			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.4		μg/kg dry	22.4	16.7	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.4		μg/kg dry	22.4	20.2	1	и			"		Χ
11141-16-5	Aroclor-1232	< 22.4		μg/kg dry	22.4	14.4	1	и			"		Χ
53469-21-9	Aroclor-1242	< 22.4		μg/kg dry	22.4	13.5	1	и			"		Χ
12672-29-6	Aroclor-1248	72.8		μg/kg dry	22.4	11.6	1			н	"		Χ
11097-69-1	Aroclor-1254 [2C]	153		μg/kg dry	22.4	13.1	1			н	"		Χ
11096-82-5	Aroclor-1260 [2C]	53.7		μg/kg dry	22.4	11.2	1	и			"		Χ
37324-23-5	Aroclor-1262	< 22.4		μg/kg dry	22.4	20.9	1			н	"		Χ
11100-14-4	Aroclor-1268	< 22.4		μg/kg dry	22.4	9.24	1	п			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		н	•	п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	i0 %		ı			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	60 %					"		
General C	Chemistry Parameters												
	% Solids	88.1		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample I 3/4-G-12 SB85918			·	<u>Project #</u> 0000.0000		Matrix Concrete	·	ection Date 0-Mar-14 14			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result Fla	g Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC										
Polychlorina	ated Biphenyls											
Prepared	by method SW846 3540C											
12674-11-2	Aroclor-1016	< 21.8	μg/kg dry	21.8	16.3	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 21.8	μg/kg dry	21.8	19.6	1				"		Χ
11141-16-5	Aroclor-1232	< 21.8	μg/kg dry	21.8	14.0	1	п			"		Χ
53469-21-9	Aroclor-1242	< 21.8	μg/kg dry	21.8	13.1	1				"		Х
12672-29-6	Aroclor-1248	61.0	μg/kg dry	21.8	11.3	1				"		Х
11097-69-1	Aroclor-1254 [2C]	91.5	μg/kg dry	21.8	12.8	1				"		Х
11096-82-5	Aroclor-1260 [2C]	26.1	μg/kg dry	21.8	10.9	1				"		Х
37324-23-5	Aroclor-1262	< 21.8	μg/kg dry	21.8	20.3	1				"		Х
11100-14-4	Aroclor-1268	< 21.8	μg/kg dry	21.8	8.99	1	ı			"		Χ
Surrogate re	coveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90		30-15	50 %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90		30-15	50 %		н		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	80		30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95		30-15	50 %		н	•	н	"		
General (Chemistry Parameters											
	% Solids	89.5	%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample I 3/4-G-18 SB85918				Client P 211304.0			Matrix Concrete		ection Date -Mar-14 14		Received 13-Mar-14 Analyst Batch BLM 1405508 " " " " " " " " " " " " " " " " " " "		
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
	ated Biphenyls												
Prepared	d by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.7		μg/kg dry	22.7	17.0	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.7		μg/kg dry	22.7	20.5	1				"		Χ
11141-16-5	Aroclor-1232	< 22.7		μg/kg dry	22.7	14.6	1	н		н	"		Χ
53469-21-9	Aroclor-1242	< 22.7		μg/kg dry	22.7	13.7	1			п	"		Χ
12672-29-6	Aroclor-1248 [2C]	143		μg/kg dry	22.7	9.97	1				"		Х
11097-69-1	Aroclor-1254 [2C]	176		μg/kg dry	22.7	13.3	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	27.3		μg/kg dry	22.7	11.4	1				"		Х
37324-23-5	Aroclor-1262	< 22.7		μg/kg dry	22.7	21.2	1	п			"		Х
11100-14-4	Aroclor-1268	< 22.7		μg/kg dry	22.7	9.37	1				"		Χ
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		н	•		"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	0 %		н			"		
General (Chemistry Parameters												
	% Solids	87.2		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample I 3/4-G-24 SB85918				Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete	·	ection Date 0-Mar-14 14			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.2		μg/kg dry	22.2	16.6	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.2		μg/kg dry	22.2	20.0	1				•		Χ
11141-16-5	Aroclor-1232	< 22.2		μg/kg dry	22.2	14.2	1				"		Х
53469-21-9	Aroclor-1242	< 22.2		μg/kg dry	22.2	13.3	1				"		Х
12672-29-6	Aroclor-1248 [2C]	254	Р	μg/kg dry	22.2	9.74	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	2,400		μg/kg dry	22.2	13.0	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	283		μg/kg dry	22.2	11.1	1				"		Χ
37324-23-5	Aroclor-1262	< 22.2		μg/kg dry	22.2	20.7	1				"		Х
11100-14-4	Aroclor-1268	< 22.2		μg/kg dry	22.2	9.16	1	ı			"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	50 %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		н		п	"		
General (Chemistry Parameters												
	% Solids	88.2		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	

Sample Id 3/4-G-6'' SB85918				<u>Client P</u> 211304.0			Matrix Concrete		ection Date Mar-14 14			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC .											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.1		μg/kg dry	21.1	15.8	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 21.1		μg/kg dry	21.1	19.1	1				"		Χ
11141-16-5	Aroclor-1232	< 21.1		μg/kg dry	21.1	13.6	1	п			"		Χ
53469-21-9	Aroclor-1242	< 21.1		μg/kg dry	21.1	12.7	1	п			"		Χ
12672-29-6	Aroclor-1248	< 21.1		μg/kg dry	21.1	11.0	1			п	"		Х
11097-69-1	Aroclor-1254 [2C]	< 21.1		μg/kg dry	21.1	12.4	1	II .		ıı	"		Χ
11096-82-5	Aroclor-1260	< 21.1		μg/kg dry	21.1	13.1	1			и	"		Х
37324-23-5	Aroclor-1262	< 21.1		μg/kg dry	21.1	19.7	1			и	"		Х
11100-14-4	Aroclor-1268	< 21.1		μg/kg dry	21.1	8.72	1	п			"		Χ
Surrogate red	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %				н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %		as .		ı	"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample Id 3/4-G-12 SB85918				Client P 211304.0			<u>Matrix</u> Concrete		ection Date -Mar-14 14			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.5		μg/kg dry	21.5	16.0	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 21.5		μg/kg dry	21.5	19.3	1				"		Χ
11141-16-5	Aroclor-1232	< 21.5		μg/kg dry	21.5	13.8	1	н			"		Χ
53469-21-9	Aroclor-1242	< 21.5		μg/kg dry	21.5	12.9	1			и	"		Χ
12672-29-6	Aroclor-1248	< 21.5		μg/kg dry	21.5	11.2	1				"		Χ
11097-69-1	Aroclor-1254	< 21.5		μg/kg dry	21.5	17.9	1				"		Χ
11096-82-5	Aroclor-1260	< 21.5		μg/kg dry	21.5	13.3	1			н	"		Χ
37324-23-5	Aroclor-1262	< 21.5		μg/kg dry	21.5	20.0	1	п			"		Х
11100-14-4	Aroclor-1268	< 21.5		μg/kg dry	21.5	8.85	1				"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-15	0 %		н		"	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-15	0 %		н		"	"		
2051-24-3	Decachlorobiphenyl (Sr)	60			30-15	i0 %		II .		ıı	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-15	50 %		11			"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample I 7/8-G-6'' SB85918				Client P 211304.0			Matrix Concrete		ection Date -Mar-14 09			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	tile Organic Compounds by C	GC											
	ated Biphenyls I by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.5		μg/kg dry	23.5	17.5	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Х
11104-28-2	Aroclor-1221	< 23.5		μg/kg dry	23.5	21.1	1	п			"		Χ
11141-16-5	Aroclor-1232	< 23.5		μg/kg dry	23.5	15.1	1	п			"		Χ
53469-21-9	Aroclor-1242	< 23.5		μg/kg dry	23.5	14.1	1	п			"		Χ
12672-29-6	Aroclor-1248	618		μg/kg dry	23.5	12.2	1	п			"		Χ
11097-69-1	Aroclor-1254 [2C]	734		μg/kg dry	23.5	13.7	1	п			"		Χ
11096-82-5	Aroclor-1260 [2C]	52.8		μg/kg dry	23.5	11.7	1	II		н	"		Х
37324-23-5	Aroclor-1262	< 23.5		μg/kg dry	23.5	21.8	1	п		п	"		Χ
11100-14-4	Aroclor-1268	< 23.5		μg/kg dry	23.5	9.67	1	и			"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	i0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %					"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample Id 7/8-G-12 SB85918				<u>Client P</u> 211304.00			Matrix Concrete		ection Date -Mar-14 09			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.0		μg/kg dry	23.0	17.2	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 23.0		μg/kg dry	23.0	20.7	1	п			"		Χ
11141-16-5	Aroclor-1232	< 23.0		μg/kg dry	23.0	14.7	1	н			"		Χ
53469-21-9	Aroclor-1242	< 23.0		μg/kg dry	23.0	13.8	1				"		Χ
12672-29-6	Aroclor-1248	773		μg/kg dry	23.0	11.9	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	1,810		μg/kg dry	23.0	13.4	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	183		μg/kg dry	23.0	11.5	1				"		Χ
37324-23-5	Aroclor-1262	< 23.0		μg/kg dry	23.0	21.4	1				"		Χ
11100-14-4	Aroclor-1268	< 23.0		μg/kg dry	23.0	9.47	1	и			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		п		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		п		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	0 %		н			"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample Ic 7/8-G-18' SB85918-				Client P 211304.0	<u>Project #</u> 000.0000		Matrix Concrete	-	ection Date -Mar-14 09			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
<u>Polychlorina</u>	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.6		μg/kg dry	22.6	16.9	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.6		μg/kg dry	22.6	20.3	1			II .	"		Χ
11141-16-5	Aroclor-1232	< 22.6		μg/kg dry	22.6	14.5	1			u	"		Χ
53469-21-9	Aroclor-1242	< 22.6		μg/kg dry	22.6	13.6	1	н			"		Χ
12672-29-6	Aroclor-1248 [2C]	420		μg/kg dry	22.6	9.91	1	ı		ıı	"		Х
11097-69-1	Aroclor-1254	234	Р	μg/kg dry	22.6	18.8	1	ı		ıı	"		Х
11096-82-5	Aroclor-1260	24.8	Р	μg/kg dry	22.6	14.0	1	ı		и	"		Χ
37324-23-5	Aroclor-1262	< 22.6		μg/kg dry	22.6	21.0	1	ı		и	"		Χ
11100-14-4	Aroclor-1268	< 22.6		μg/kg dry	22.6	9.31	1	и			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		п		н	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	50 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		н		ı	"		
General C	hemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample Ic 7/8-G-24' SB85918-				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Mar-14 09			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.4		μg/kg dry	23.4	17.5	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 23.4		μg/kg dry	23.4	21.1	1				"		Χ
11141-16-5	Aroclor-1232	< 23.4		μg/kg dry	23.4	15.0	1				"		Χ
53469-21-9	Aroclor-1242	< 23.4		μg/kg dry	23.4	14.1	1				"		Χ
12672-29-6	Aroclor-1248	532		μg/kg dry	23.4	12.2	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	1,130		μg/kg dry	23.4	13.7	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	395		μg/kg dry	23.4	11.7	1				"		Χ
37324-23-5	Aroclor-1262	< 23.4		μg/kg dry	23.4	21.8	1				"		Χ
11100-14-4	Aroclor-1268	< 23.4		μg/kg dry	23.4	9.67	1				"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %				п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	60 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %		•		н	"		
General C	hemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405550

% Solids

Sample I- 7/8-G-6'' SB85918				Client P 211304.0			Matrix Concrete		ection Date -Mar-14 09			ceived Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 20.8		μg/kg dry	20.8	15.5	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 20.8		μg/kg dry	20.8	18.7	1	п			"		Χ
11141-16-5	Aroclor-1232	< 20.8		μg/kg dry	20.8	13.3	1				"		Χ
53469-21-9	Aroclor-1242	< 20.8		μg/kg dry	20.8	12.5	1				"		Χ
12672-29-6	Aroclor-1248	27.0		μg/kg dry	20.8	10.8	1				"		Χ
11097-69-1	Aroclor-1254	< 20.8		μg/kg dry	20.8	17.3	1				"		Χ
11096-82-5	Aroclor-1260	< 20.8		μg/kg dry	20.8	12.9	1			п	"		Χ
37324-23-5	Aroclor-1262	< 20.8		μg/kg dry	20.8	19.3	1			п	"		Χ
11100-14-4	Aroclor-1268	< 20.8		μg/kg dry	20.8	8.56	1	п			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		n.			"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	0 %				п	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	0 %		п			"		
General C	Chemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405551

% Solids

Sample Id 7/8-G-12' SB85918-				<u>Client P</u> 211304.0			Matrix Concrete	·	ection Date -Mar-14 09			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	lle Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 20.9		μg/kg dry	20.9	15.6	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 20.9		μg/kg dry	20.9	18.8	1	н			"		Χ
11141-16-5	Aroclor-1232	< 20.9		μg/kg dry	20.9	13.4	1				"		Χ
53469-21-9	Aroclor-1242	< 20.9		μg/kg dry	20.9	12.6	1				"		Χ
12672-29-6	Aroclor-1248 [2C]	95.1		μg/kg dry	20.9	9.18	1				"		Χ
11097-69-1	Aroclor-1254	< 20.9		μg/kg dry	20.9	17.4	1				"		Χ
11096-82-5	Aroclor-1260	< 20.9		μg/kg dry	20.9	13.0	1				"		Χ
37324-23-5	Aroclor-1262	< 20.9		μg/kg dry	20.9	19.5	1				"		Χ
11100-14-4	Aroclor-1268	< 20.9		μg/kg dry	20.9	8.63	1	и			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	0 %		п		п	"		
General C	hemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405551

% Solids

Sample I 13/14-G- SB85918				Client P 211304.00			Matrix Concrete	-	ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result I	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.9		μg/kg dry	22.9	17.1	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.9		μg/kg dry	22.9	20.7	1				"		Χ
11141-16-5	Aroclor-1232	< 22.9		μg/kg dry	22.9	14.7	1			п	"		Χ
53469-21-9	Aroclor-1242	< 22.9		μg/kg dry	22.9	13.8	1			п	"		Χ
12672-29-6	Aroclor-1248	667		μg/kg dry	22.9	11.9	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	1,000		μg/kg dry	22.9	13.4	1	п			"		Χ
11096-82-5	Aroclor-1260 [2C]	131		μg/kg dry	22.9	11.5	1	п			"		Χ
37324-23-5	Aroclor-1262	< 22.9		μg/kg dry	22.9	21.4	1	п			"		Χ
11100-14-4	Aroclor-1268	< 22.9		μg/kg dry	22.9	9.47	1	п			"		Х
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-15	0 %		п			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-15	0 %		n.			"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	60 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-15	50 %		п	н		"		
General (Chemistry Parameters												
	% Solids	85.5		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample I 13/14-G- SB85918				<u>Client P</u> 211304.0			Matrix Concrete	-	ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.5		μg/kg dry	22.5	16.8	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.5		μg/kg dry	22.5	20.2	1				"		Χ
11141-16-5	Aroclor-1232	< 22.5		μg/kg dry	22.5	14.4	1				"		Χ
53469-21-9	Aroclor-1242	< 22.5		μg/kg dry	22.5	13.5	1				"		Χ
12672-29-6	Aroclor-1248	251		μg/kg dry	22.5	11.7	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	547		μg/kg dry	22.5	13.1	1	п			"		Χ
11096-82-5	Aroclor-1260 [2C]	96.5		μg/kg dry	22.5	11.2	1	п			"		Χ
37324-23-5	Aroclor-1262	< 22.5		μg/kg dry	22.5	20.9	1	п			"		Χ
11100-14-4	Aroclor-1268	< 22.5		μg/kg dry	22.5	9.26	1	п			"		Х
Surrogate re	ecoveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		п		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		n.			"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %		п	•	ı	"		
General (Chemistry Parameters												
	% Solids	85.4		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample I 13/14-G- SB85918			_	<u>Client P</u> 11304.00	roject # 000.0000		Matrix Concrete		ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result F	lag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.2	μ	g/kg dry	23.2	17.3	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 23.2	μ	g/kg dry	23.2	20.9	1				"		Χ
11141-16-5	Aroclor-1232	< 23.2	μ	g/kg dry	23.2	14.9	1				"		Χ
53469-21-9	Aroclor-1242	< 23.2	μ	g/kg dry	23.2	13.9	1				"		Χ
12672-29-6	Aroclor-1248	380	μ	g/kg dry	23.2	12.0	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	872	μ	g/kg dry	23.2	13.6	1						Χ
11096-82-5	Aroclor-1260 [2C]	115	μ	g/kg dry	23.2	11.6	1						Χ
37324-23-5	Aroclor-1262	< 23.2	μ	g/kg dry	23.2	21.6	1						Χ
11100-14-4	Aroclor-1268	< 23.2	μ	g/kg dry	23.2	9.55	1				"		Х
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %					"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	0 %				ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %				ı	"		
General (Chemistry Parameters												
	% Solids	85.9		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample I 13/14-G- SB85918				<u>Client P</u> 211304.0	<u>Project #</u> 000.0000		Matrix Concrete		ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.1		μg/kg dry	23.1	17.3	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 23.1		μg/kg dry	23.1	20.8	1				"		Χ
11141-16-5	Aroclor-1232	< 23.1		μg/kg dry	23.1	14.8	1				"		Χ
53469-21-9	Aroclor-1242	< 23.1		μg/kg dry	23.1	13.9	1				"		Χ
12672-29-6	Aroclor-1248	1,600		μg/kg dry	23.1	12.0	1				"		Х
11097-69-1	Aroclor-1254 [2C]	2,330		μg/kg dry	23.1	13.5	1				"		Х
11096-82-5	Aroclor-1260	201		μg/kg dry	23.1	14.3	1				"		Х
37324-23-5	Aroclor-1262	< 23.1		μg/kg dry	23.1	21.5	1				"		Х
11100-14-4	Aroclor-1268	< 23.1		μg/kg dry	23.1	9.53	1				"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %					"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	0 %					"		
General (Chemistry Parameters												
	% Solids	84.8		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

	38			211304.00	roject # 000.0000		Matrix Concrete	·	ection Date -Mar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	le Organic Compounds by G	GC											
Polychlorinat	ted Biphenyls												
Prepared I	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.0		μg/kg dry	21.0	15.7	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 21.0		μg/kg dry	21.0	18.9	1	п			"		Х
11141-16-5	Aroclor-1232	< 21.0		μg/kg dry	21.0	13.5	1				"		Х
53469-21-9	Aroclor-1242	< 21.0		μg/kg dry	21.0	12.6	1				"		Х
12672-29-6	Aroclor-1248	74.5		μg/kg dry	21.0	10.9	1	п			"		Х
11097-69-1	Aroclor-1254 [2C]	91.3		μg/kg dry	21.0	12.3	1	п			"		Х
11096-82-5	Aroclor-1260	< 21.0		μg/kg dry	21.0	13.0	1	и			"		Х
37324-23-5	Aroclor-1262	< 21.0		μg/kg dry	21.0	19.5	1	и			"		Х
11100-14-4	Aroclor-1268	< 21.0		μg/kg dry	21.0	8.66	1				"		Χ
Surrogate reco	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		н		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п		и	"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	0 %		и			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %		u	•	н	"		

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DT

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% Solids

Sample Id 13/14-G-1 SB85918				<u>Client P</u> 211304.0			<u>Matrix</u> Concrete	·	ection DateMar-14 13			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
Polychlorina	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.0		μg/kg dry	22.0	16.4	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 22.0		μg/kg dry	22.0	19.8	1				"		Χ
11141-16-5	Aroclor-1232	< 22.0		μg/kg dry	22.0	14.1	1				"		Χ
53469-21-9	Aroclor-1242	< 22.0		μg/kg dry	22.0	13.2	1				"		Х
12672-29-6	Aroclor-1248	106		μg/kg dry	22.0	11.4	1				"		Х
11097-69-1	Aroclor-1254 [2C]	157		μg/kg dry	22.0	12.9	1				"		Х
11096-82-5	Aroclor-1260	< 22.0		μg/kg dry	22.0	13.6	1				"		Х
37324-23-5	Aroclor-1262	< 22.0		μg/kg dry	22.0	20.5	1				"		Х
11100-14-4	Aroclor-1268	< 22.0		μg/kg dry	22.0	9.08	1	11			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		N		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %		as .		н	"		
General C	hemistry Parameters												

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DT

1405551

% Solids

Sample I 17/18-G- SB85918				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.1		μg/kg dry	23.1	17.3	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	Χ
11104-28-2	Aroclor-1221	< 23.1		μg/kg dry	23.1	20.9	1				"		Χ
11141-16-5	Aroclor-1232	< 23.1		μg/kg dry	23.1	14.9	1				"		Χ
53469-21-9	Aroclor-1242	< 23.1		μg/kg dry	23.1	13.9	1				"		Χ
12672-29-6	Aroclor-1248	347		μg/kg dry	23.1	12.0	1				"		Х
11097-69-1	Aroclor-1254 [2C]	1,090		μg/kg dry	23.1	13.6	1				"		Х
11096-82-5	Aroclor-1260 [2C]	147		μg/kg dry	23.1	11.6	1				"		Х
37324-23-5	Aroclor-1262	< 23.1		μg/kg dry	23.1	21.6	1				"		Х
11100-14-4	Aroclor-1268	< 23.1		μg/kg dry	23.1	9.55	1				"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %				п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %				ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	i0 %				н	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-15	50 %				н	"		
General (Chemistry Parameters												
	% Solids	85.5		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample Id 17/18-G- SB85918				Client P 211304.00			<u>Matrix</u> Concrete		ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC .											
	tted Biphenyls by method SW846 3540C		GS1										
12674-11-2	Aroclor-1016	< 216	D	μg/kg dry	216	162	10	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 216	D	μg/kg dry	216	195	10	п		п	"		Χ
11141-16-5	Aroclor-1232	< 216	D	μg/kg dry	216	139	10			ıı	"		Χ
53469-21-9	Aroclor-1242	< 216	D	μg/kg dry	216	130	10			ıı	"		Χ
12672-29-6	Aroclor-1248 [2C]	6,640	D	μg/kg dry	216	94.9	10			и			Χ
11097-69-1	Aroclor-1254 [2C]	13,400	D	μg/kg dry	216	127	10			и	"		Χ
11096-82-5	Aroclor-1260 [2C]	973	D	μg/kg dry	216	108	10			и			Χ
37324-23-5	Aroclor-1262	< 216	D	μg/kg dry	216	201	10			и			Χ
11100-14-4	Aroclor-1268	< 216	D	μg/kg dry	216	89.2	10	ı			"		Х
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-15	0 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	150			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	100			30-15	0 %				u	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	150			30-15	0 %		п			"		

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General Chemistry Parameters % Solids

Sample I 17/18-G- SB85918	_			Client P 211304.00			Matrix Concrete	-	ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result F	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorina	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.0		μg/kg dry	22.0	16.4	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 22.0		μg/kg dry	22.0	19.8	1	п			"		Χ
11141-16-5	Aroclor-1232	< 22.0		μg/kg dry	22.0	14.1	1				"		Χ
53469-21-9	Aroclor-1242	< 22.0		μg/kg dry	22.0	13.2	1				"		Χ
12672-29-6	Aroclor-1248	189		μg/kg dry	22.0	11.4	1	и			"		Х
11097-69-1	Aroclor-1254 [2C]	195		μg/kg dry	22.0	12.9	1	и			"		Χ
11096-82-5	Aroclor-1260 [2C]	< 22.0		μg/kg dry	22.0	11.0	1	и			"		Χ
37324-23-5	Aroclor-1262	< 22.0		μg/kg dry	22.0	20.5	1	п			"		Χ
11100-14-4	Aroclor-1268	< 22.0		μg/kg dry	22.0	9.07	1	п			"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	0 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		н		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %		as .		н	"		
General (Chemistry Parameters												
	% Solids	88.3		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample I 17/18-G- SB85918				<u>Client P</u> 211304.0			Matrix Concrete		ection Date -Mar-14 10			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC											
Polychlorin	ated Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.3		μg/kg dry	22.3	16.6	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 22.3		μg/kg dry	22.3	20.1	1	н			"		Χ
11141-16-5	Aroclor-1232	< 22.3		μg/kg dry	22.3	14.3	1				"		Χ
53469-21-9	Aroclor-1242	< 22.3		μg/kg dry	22.3	13.4	1			н	"		Χ
12672-29-6	Aroclor-1248	186		μg/kg dry	22.3	11.6	1				"		Χ
11097-69-1	Aroclor-1254 [2C]	462		μg/kg dry	22.3	13.0	1				"		Χ
11096-82-5	Aroclor-1260 [2C]	45.7		μg/kg dry	22.3	11.1	1	п			"		Χ
37324-23-5	Aroclor-1262	< 22.3		μg/kg dry	22.3	20.7	1	п			"		Х
11100-14-4	Aroclor-1268	< 22.3		μg/kg dry	22.3	9.19	1	п			"		Χ
Surrogate re	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-15	50 %		н		п	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %		н	•	ı	"		
General (Chemistry Parameters												
	% Solids	88.0		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample I 17/18-G- SB85918			·	<u>Project #</u> 0000.0000		<u>Matrix</u> Concrete	·	ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result Fi	lag Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivola	tile Organic Compounds by C	GC										
Polychlorina	ated Biphenyls											
Prepared	by method SW846 3540C											
12674-11-2	Aroclor-1016	< 21.0	μg/kg dry	21.0	15.7	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 21.0	μg/kg dry	21.0	19.0	1			u	"		Χ
11141-16-5	Aroclor-1232	< 21.0	μg/kg dry	21.0	13.5	1			п			Χ
53469-21-9	Aroclor-1242	< 21.0	μg/kg dry	21.0	12.7	1	н					Χ
12672-29-6	Aroclor-1248 [2C]	56.8	μg/kg dry	21.0	9.23	1	н					Χ
11097-69-1	Aroclor-1254	< 21.0	μg/kg dry	21.0	17.5	1	н		и	"		Χ
11096-82-5	Aroclor-1260	< 21.0	μg/kg dry	21.0	13.0	1	н		и	"		Χ
37324-23-5	Aroclor-1262	< 21.0	μg/kg dry	21.0	19.6	1			u	"		Х
11100-14-4	Aroclor-1268	< 21.0	μg/kg dry	21.0	8.68	1				"		Χ
Surrogate re	coveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95		30-15	50 %					u		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90		30-18	50 %		н		ı	"		
2051-24-3	Decachlorobiphenyl (Sr)	85		30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90		30-18	50 %		н		ı	"		
General (Chemistry Parameters											
	% Solids	94.1	%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample Id 17/18-G- SB85918				Client P 211304.0			Matrix Concrete	·	ection Date -Mar-14 11			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 21.3		μg/kg dry	21.3	15.9	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 21.3		μg/kg dry	21.3	19.2	1	и			"		Х
11141-16-5	Aroclor-1232	< 21.3		μg/kg dry	21.3	13.7	1	и			"		Х
53469-21-9	Aroclor-1242	< 21.3		μg/kg dry	21.3	12.8	1				"		Х
12672-29-6	Aroclor-1248	46.9		μg/kg dry	21.3	11.1	1	п			"		Х
11097-69-1	Aroclor-1254	< 21.3		μg/kg dry	21.3	17.8	1	п			"		Х
11096-82-5	Aroclor-1260	< 21.3		μg/kg dry	21.3	13.2	1	п			"		Х
37324-23-5	Aroclor-1262	< 21.3		μg/kg dry	21.3	19.8	1	п			"		Χ
11100-14-4	Aroclor-1268	< 21.3		μg/kg dry	21.3	8.79	1	и			"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	0 %		н		н	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-15	0 %		п		п	"		
2051-24-3	Decachlorobiphenyl (Sr)	85			30-15	0 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	0 %					"		
General C	Chemistry Parameters												

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DT

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% Solids

Sample Io 7/8-F-0'' SB85918	dentification -46			Client P 211304.0	-		Matrix Concrete		ection Date -Mar-14 09	,		ceived Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolat	ile Organic Compounds by C	GC											
	ated Biphenyls by method SW846 3540C												
12674-11-2	Aroclor-1016	< 23.8		μg/kg dry	23.8	17.7	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 23.8		μg/kg dry	23.8	21.4	1						Χ
11141-16-5	Aroclor-1232	< 23.8		μg/kg dry	23.8	15.3	1	II .		ıı	"		Χ
53469-21-9	Aroclor-1242	< 23.8		μg/kg dry	23.8	14.3	1	н			"		Χ
12672-29-6	Aroclor-1248 [2C]	39.2		μg/kg dry	23.8	10.4	1	ı		ıı			Х
11097-69-1	Aroclor-1254	< 23.8		μg/kg dry	23.8	19.8	1						Χ
11096-82-5	Aroclor-1260	< 23.8		μg/kg dry	23.8	14.7	1	ı		ıı			Х
37324-23-5	Aroclor-1262	< 23.8		μg/kg dry	23.8	22.1	1				"		Х
11100-14-4	Aroclor-1268	< 23.8		μg/kg dry	23.8	9.80	1	ı		ıı	"		Χ
Surrogate red	coveries:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-15	50 %		н		ı	"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		п			"		
2051-24-3	Decachlorobiphenyl (Sr)	75			30-15	50 %		ı		u	"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-15	50 %		п			"		
General C	Chemistry Parameters												
	% Solids	84.2		%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	

Sample Ic 7/8-F-3" SB85918-	<u>-47</u>			<u>Client P</u> 211304.0			<u>Matrix</u> Concrete	-	ection Date -Mar-14 09			<u>ceived</u> Mar-14	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolati	ile Organic Compounds by C	GC											
	ted Biphenyls												
Prepared	by method SW846 3540C												
12674-11-2	Aroclor-1016	< 22.1		μg/kg dry	22.1	16.5	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	Χ
11104-28-2	Aroclor-1221	< 22.1		μg/kg dry	22.1	19.9	1				"		Χ
11141-16-5	Aroclor-1232	< 22.1		μg/kg dry	22.1	14.2	1				"		Χ
53469-21-9	Aroclor-1242	< 22.1		μg/kg dry	22.1	13.3	1				"		Χ
12672-29-6	Aroclor-1248	76.2		μg/kg dry	22.1	11.5	1	и			"		Х
11097-69-1	Aroclor-1254	69.6	Р	μg/kg dry	22.1	18.4	1	и					Х
11096-82-5	Aroclor-1260	< 22.1		μg/kg dry	22.1	13.7	1	п					Х
37324-23-5	Aroclor-1262	< 22.1		μg/kg dry	22.1	20.6	1	и			"		Х
11100-14-4	Aroclor-1268	< 22.1		μg/kg dry	22.1	9.11	1	11			"		Χ
Surrogate rec	overies:												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-15	50 %		и			"		
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-15	50 %		н			"		
2051-24-3	Decachlorobiphenyl (Sr)	80			30-15	50 %					"		
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-15	50 %					"		
General C	hemistry Parameters												

14-Mar-14 14-Mar-14

DT

1405551

% Solids

alyte(s)	Result	Flag Uni	ts *RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Limi
tch 1405507 - SW846 3540C									
Blank (1405507-BLK1)				Pre	pared: 14-Ma	r-14 Analyzed	: 18-Mar-14		
Aroclor-1016	< 19.3	μg/kg	wet 19.3			•			
Aroclor-1016 [2C]	< 19.3	μg/kg							
Aroclor-1221	< 19.3	μg/kg	wet 19.3						
Aroclor-1221 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1232	< 19.3	μg/kg	wet 19.3						
Aroclor-1232 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1242	< 19.3	μg/kg	wet 19.3						
Aroclor-1242 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1248	< 19.3	μg/kg	wet 19.3						
Aroclor-1248 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1254	< 19.3	μg/kg	wet 19.3						
Aroclor-1254 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1260	< 19.3	μg/kg	wet 19.3						
Aroclor-1260 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1262	< 19.3	μg/kg	wet 19.3						
Aroclor-1262 [2C]	< 19.3	μg/kg	wet 19.3						
Aroclor-1268	< 19.3	μg/kg	wet 19.3						
Aroclor-1268 [2C]	< 19.3	μg/kg	wet 19.3						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.4	μg/kg	wet	19.3		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	19.3	μg/kg		19.3		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.5	μg/kg		19.3		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.5	μg/kg	wet	19.3		80	30-150		
LCS (1405507-BS1)				Pre	pared: 14-Ma	r-14 Analyzed	: 18-Mar-14		
Aroclor-1016	231	μg/kg	wet 19.7	246		94	40-140		
Aroclor-1016 [2C]	243	μg/kg		246		99	40-140		
Aroclor-1260	224	μg/kg		246		91	40-140		
Aroclor-1260 [2C]	223	μg/kg		246		91	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.6	μg/kg	wet	19.7		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	20.6	μg/kg		19.7		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.7	μg/kg		19.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.7	μg/kg		19.7		85	30-150		
LCS Dup (1405507-BSD1)		10 0			enared: 14-Ma	r-14 Analyzed			
Aroclor-1016	232	μg/kg	wet 19.8	247	parou. 14 ma	94	40-140	0.4	30
Aroclor-1016 [2C]	243	μg/kg		247		98	40-140	0.4	30
Aroclor-1260	227	μg/kg		247		92	40-140	0.4	30
Aroclor-1260 [2C]	213	μg/kg		247		86	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.8	μg/kg		19.8		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	20.8	μg/kg		19.8		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.8	μg/kg μg/kg		19.8		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.8	μg/kg		19.8		95	30-150		
. , , , , .	10.0				norod: 14 Mo				
<u>Duplicate (1405507-DUP1)</u> Aroclor-1016	< 22.6	· · · · · · · · · · · · · · · · · · ·	e: SB85918-18 dry 22.6	Pre	epared: 14-ivia BRL	r-14 Analyzed	. 10-1VIAI-14		30
Aroclor-1016 [2C]	< 22.6 < 22.6	μg/kg μg/ka	-		BRL				30
Aroclor-1221	< 22.6 < 22.6	μg/kg			BRL				30
Aroclor-1221 [2C]	< 22.6 < 22.6	μg/kg μα/kα			BRL				30
Aroclor-1232	< 22.6	μg/kg μg/ka			BRL				30
Aroclor-1232 [2C]	< 22.6 < 22.6	μg/kg μα/kα			BRL				30
Aroclor-1242	< 22.6 < 22.6	μg/kg μg/ka	•		BRL				
	< 22.6 < 22.6	µg/kg µg/kg	•		BRL				30 30
Aroclor-1242 [2C]									

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
atch 1405507 - SW846 3540C										
<u>Duplicate (1405507-DUP1)</u>			Source: SB	85918-18	Pre	pared: 14-Mar	-14 Analyzed	: 18-Mar-14		
Aroclor-1248 [2C]	40.7		μg/kg dry	22.6		42.0			3	30
Aroclor-1254	45.2		μg/kg dry	22.6		51.0			12	30
Aroclor-1254 [2C]	49.8		μg/kg dry	22.6		53.3			7	30
Aroclor-1260	< 22.6		μg/kg dry	22.6		BRL				30
Aroclor-1260 [2C]	< 22.6		μg/kg dry	22.6		BRL				30
Aroclor-1262	< 22.6		μg/kg dry	22.6		BRL				30
Aroclor-1262 [2C]	< 22.6		μg/kg dry	22.6		BRL				30
Aroclor-1268	< 22.6		μg/kg dry	22.6		BRL				30
Aroclor-1268 [2C]	< 22.6		μg/kg dry	22.6		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.5		μg/kg dry		22.6		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	21.5		μg/kg dry		22.6		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.4		μg/kg dry		22.6		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.5		μg/kg dry		22.6		95	30-150		
Matrix Spike (1405507-MS1)			Source: SB	85918-16		nared: 14-Mar	-14 Analyzed			
Aroclor-1016	304		μg/kg dry	22.7	283	BRL	107	40-140		
Aroclor-1016 [2C]	315		μg/kg dry	22.7	283	BRL	111	40-140		
Aroclor-1260	352		μg/kg dry μg/kg dry	22.7	283	BRL	124	40-140		
Aroclor-1260 [2C]	340		μg/kg dry μg/kg dry	22.7	283	BRL	120	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.5		μg/kg dry		22.7		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.7		μg/kg dry		22.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.4		μg/kg dry		22.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.5		μg/kg dry		22.7		95	30-150		
Matrix Spike Dup (1405507-MSD1)	27.0		Source: SB	95019 16		narad: 14 Mar	-14 Analyzed			
Aroclor-1016	298		μg/kg dry	22.7	283	BRL	105	40-140	2	30
Aroclor-1016 [2C]	331			22.7	283	BRL	117	40-140	5	30
Aroclor-1010 [20]	361		μg/kg dry	22.7	283	BRL	127	40-140	2	30
Aroclor-1260 [2C]	346		μg/kg dry μg/kg dry	22.7	283	BRL	122	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	22.7				22.7		100	30-150		
, , , ,			μg/kg dry							
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.7		μg/kg dry		22.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.4		μg/kg dry		22.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.7		μg/kg dry		22.7		100	30-150		
atch 1405508 - SW846 3540C					Dur		. 4.4	. 47 Maii 44		
Blank (1405508-BLK1)	z 10 2			10.2	Pre	pareu: 14-iviar	r-14 Analyzed	: 17-War-14		
Arcelor 1016 [20]	< 19.3		μg/kg wet	19.3						
Aroclor 1221	< 19.3		μg/kg wet	19.3						
Arcolor 1221	< 19.3		μg/kg wet	19.3						
Aroclor 1221 [2C]	< 19.3		μg/kg wet	19.3						
Aroclor 1222 I2Cl	< 19.3		μg/kg wet	19.3						
Arcelor 1242	< 19.3		μg/kg wet	19.3						
Arcelor 1242 I2Cl	< 19.3		μg/kg wet	19.3						
Arcelor 1242 [2C]	< 19.3		μg/kg wet	19.3						
Arcelor 1248 [20]	< 19.3		μg/kg wet	19.3						
Arcelor 1254	< 19.3		μg/kg wet	19.3						
Aroclor 1254	< 19.3		μg/kg wet	19.3						
Aroclor-1254 [2C]	< 19.3		μg/kg wet	19.3						
Aroclor-1260	< 19.3		μg/kg wet	19.3						
Aroclor-1260 [2C]	< 19.3		μg/kg wet	19.3						
A1 4000										
Aroclor-1262 Aroclor-1262 [2C]	< 19.3 < 19.3		μg/kg wet μg/kg wet	19.3 19.3						

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
atch 1405508 - SW846 3540C										
Blank (1405508-BLK1)					Pre	pared: 14-Mai	-14 Analyzed	: 17-Mar-14		
Aroclor-1268 [2C]	< 19.3		μg/kg wet	19.3		parour i i ina				
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	25.1				19.3		130	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	25.1 24.1		μg/kg wet μg/kg wet		19.3		125	30-150 30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.3		μg/kg wet μg/kg wet		19.3		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.2		μg/kg wet μg/kg wet		19.3		115	30-150		
	22.2		µg/kg wet			navadi 14 Mai				
LCS (1405508-BS1) Aroclor-1016	163		ua/ka wot	19.8	248	pared: 14-Mai	<u>-14 Analyzed</u> 66	40-140		
Aroclor-1016 [2C]	147		μg/kg wet μg/kg wet	19.8	248		59	40-140		
Aroclor-1260	135		μg/kg wet μg/kg wet	19.8	248		5 9	40-140		
Aroclor-1260 [2C]	175			19.8	248		70	40-140		
			μg/kg wet	19.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.9		μg/kg wet		19.8		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.9		μg/kg wet		19.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.9		μg/kg wet		19.8		70	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.9		μg/kg wet		19.8		80	30-150		
LCS Dup (1405508-BSD1)					Pre	pared: 14-Mai	-14 Analyzed	: 17-Mar-14		
Aroclor-1016	156		μg/kg wet	19.4	242		64	40-140	2	30
Aroclor-1016 [2C]	153		μg/kg wet	19.4	242		63	40-140	7	30
Aroclor-1260	128		μg/kg wet	19.4	242		53	40-140	3	30
Aroclor-1260 [2C]	169		μg/kg wet	19.4	242		70	40-140	0.6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		μg/kg wet		19.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.5		μg/kg wet		19.4		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.6		μg/kg wet		19.4		70	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.5		μg/kg wet		19.4		80	30-150		
Duplicate (1405508-DUP1)			Source: SB	85918-34	Pre	pared: 14-Mai	-14 Analyzed	: 17-Mar-14		
Aroclor-1016	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1016 [2C]	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1221	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1221 [2C]	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1232	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1232 [2C]	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1242	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1242 [2C]	< 22.7		μg/kg dry μg/kg dry	22.7		BRL				30
Aroclor-1248	658		μg/kg dry	22.7		667			1	30
Aroclor-1248 [2C]	576		μg/kg dry μg/kg dry	22.7		535			8	30
Aroclor-1254	845		μg/kg dry μg/kg dry	22.7		804			5	30
Aroclor-1254 [2C]	1190		μg/kg dry μg/kg dry	22.7		1000			17	30
Aroclor-1260	104		μg/kg dry μg/kg dry	22.7		96.4			8	30
Aroclor-1260 [2C]	117			22.7		131			11	30
Aroclor-1260 [26] Aroclor-1262	< 22.7		μg/kg dry	22.7		BRL			11	30
Aroclor-1262 [2C]	< 22.7		μg/kg dry	22.7		BRL				30
Aroclor-1268	< 22.7 < 22.7		μg/kg dry	22.7						
	< 22.7 < 22.7		μg/kg dry			BRL				30
Aroclor-1268 [2C]			μg/kg dry	22.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	19.3		μg/kg dry		22.7		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	19.3		μg/kg dry		22.7		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.0		μg/kg dry		22.7		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.3		μg/kg dry		22.7		85	30-150		
Matrix Spike (1405508-MS1)			Source: SB	<u>85918-32</u>	Pre	pared: 14-Mai	-14 Analyzed	: 17-Mar-14		
Aroclor-1016	83.1	QM7	μg/kg dry	20.8	260	BRL	32	40-140		
Aroclor-1016 [2C]	83.1	QM7	μg/kg dry	20.8	260	BRL	32	40-140		
Aroclor-1260	83.1	QM7	μg/kg dry	20.8	260	BRL	32	40-140		

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
atch 1405508 - SW846 3540C										
Matrix Spike (1405508-MS1)			Source: SB	85918-32	Pre	pared: 14-Mar	-14 Analyzed	l: 17-Mar-14		
Aroclor-1260 [2C]	97.7	QM7	μg/kg dry	20.8	260	BRL	38	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.31				20.8		40	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	9.35		μg/kg dry μg/kg dry		20.8		45	30-150		
Surrogate: Decachlorobiphenyl (Sr)	8.31		μg/kg dry		20.8		40	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.35		μg/kg dry		20.8		45	30-150		
Matrix Spike Dup (1405508-MSD1)	0.00		Source: SB	85018-32		narod: 1/1-Mar	-14 Analyzed			
Aroclor-1016	189	QR9	μg/kg dry	20.8	261	BRL	72	40-140	77	30
Aroclor-1016 [2C]	178	QR9	μg/kg dry	20.8	261	BRL	68	40-140	73	30
Aroclor-1260	160	QR9	μg/kg dry μg/kg dry	20.8	261	BRL	62	40-140	63	30
Aroclor-1260 [2C]	184	QR9	μg/kg dry	20.8	261	BRL	71	40-140	61	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.7		μg/kg dry		20.8		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	17.7		μg/kg dry		20.8		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.7		μg/kg dry		20.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.8		μg/kg dry		20.8		90	30-150		
atch 1405509 - SW846 3540C	76.6		pg///g u/)		20.0			00 100		
					Duo	navadi 14 May	. 1.4	l. 17 May 14		
Blank (1405509-BLK1) Aroclor-1016	< 19.1		μg/kg wet	19.1	Pre	pareu: 14-iviar	-14 Analyzed	<u>1: 17-Mar-14</u>		
Aroclor-1016 [2C]	< 19.1			19.1						
Aroclor-1010 [20]	< 19.1		μg/kg wet μg/kg wet	19.1						
Aroclor-1221 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1232	< 19.1		μg/kg wet μg/kg wet	19.1						
Aroclor-1232 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1242	< 19.1		μg/kg wet	19.1						
Aroclor-1242 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1248	< 19.1		μg/kg wet	19.1						
Aroclor-1248 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1254	< 19.1		μg/kg wet	19.1						
Aroclor-1254 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1260	< 19.1		μg/kg wet	19.1						
Aroclor-1260 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1262	< 19.1		μg/kg wet	19.1						
Aroclor-1262 [2C]	< 19.1		μg/kg wet	19.1						
Aroclor-1268	< 19.1		μg/kg wet	19.1						
Aroclor-1268 [2C]	< 19.1		μg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	19.1		μg/kg wet		19.1		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.1		μg/kg wet		19.1		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.3		μg/kg wet		19.1		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.2		μg/kg wet		19.1		90	30-150		
LCS (1405509-BS1)					<u>Pre</u>	pared: 14-Mar	-14 Analyzed	l: 17-Mar-14		
Aroclor-1016	175		μg/kg wet	19.4	242		72	40-140		
Aroclor-1016 [2C]	150		μg/kg wet	19.4	242		62	40-140		
Aroclor-1260	155		μg/kg wet	19.4	242		64	40-140		
Aroclor-1260 [2C]	164		μg/kg wet	19.4	242		68	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		μg/kg wet		19.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	14.5		μg/kg wet		19.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.5		μg/kg wet		19.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.5		μg/kg wet		19.4		70	30-150		
LCS Dup (1405509-BSD1)					<u>P</u> re	pared: 14-Mar	-14 Analyzed	l: 17-Mar-14		
Aroclor-1016	177		μg/kg wet	19.3	241		73	40-140	1	30
Aroclor-1016 [2C]	145		μg/kg wet	19.3	241		60	40-140	3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405509 - SW846 3540C										
LCS Dup (1405509-BSD1)					Pre	pared: 14-Mar	-14 Analyzed	: 17-Mar-14		
Aroclor-1260	150		μg/kg wet	19.3	241		62	40-140	3	30
Aroclor-1260 [2C]	176		μg/kg wet	19.3	241		73	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.5		μg/kg wet		19.3		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	14.5		μg/kg wet		19.3		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.5		μg/kg wet		19.3		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.4		μg/kg wet		19.3		80	30-150		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405550 - General Preparation										
<u>Duplicate (1405550-DUP1)</u>			Source: SE	385 <u>918-12</u>	Pre	pared & Analy	zed: 14-Mar-14	<u>!</u>		
% Solids	91.1		%			91.8			0.7	20
Batch 1405551 - General Preparation										
<u>Duplicate (1405551-DUP1)</u>			Source: SE	385918-3 <u>2</u>	Pre	pared & Analy	zed: 14-Mar-14	<u>!</u>		
% Solids	95.4		%			95.7			0.3	20

Notes and Definitions

D Data reported from a dilution

GS1 Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

P Difference between the two GC columns is greater than 40%.

QM7 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable

LCS recovery.

QR9 RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

S01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration

and/or matrix interference's.

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by: June O'Connor Nicole Leja

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APPENDIX D

STRUCTURAL EVALUATION







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То	Scott Nell, P.E. Page 1	
CC	James Sullivan, P.E., Brian Canterbury, P.E., William Bent, P.E.	
Subject	Third-Party Review of Reservoir #6 Filtered Water Basin Rehabilitation	
From	Michael E. Malenfant, P.E.	
Date	16 August 2016	

Summary

AECOM was assigned the task of performing an independent peer review of construction documents for the Reservoir Number 6 Water Treatment Facility Rehabilitation of the Filtered Water Basin prepared by Hazen & Sawyer. The purpose of the project is to remove chemically impacted expansion joints and two feet of potentially impacted concrete on each side of the expansion joint. Concerns were identified by the District about the ability to remove this concrete and ensure the structural stability of the tank and appurtenant facilities.

The peer review identified two primary observations regarding the proposed work: possible structural sliding instability induced by groundwater, and design of the replacement concrete elements at the expansion joints. In addition, the team identified other minor items that may be improved upon, including construction sequencing and NSF/ASNI61 conformance.

Initial Project Review and Description

The purpose of the project is to perform rehabilitation of the Metropolitan District Commission (MDC) Reservoir #6 Filtered Water Basin expansion joint material, in addition to other mechanical and electrical upgrades. AECOM's understanding is that the Filtered Water Basin structural rehabilitation is to (a) remove and replace expansion joint material and two feet (2'-0") of concrete on either side of the expansion joints; and (b) install a waterproof membrane and drainage system on the entire Filtered Water Basin top slab.

AECOM was assigned the task of performing an independent peer review of the construction documents prepared for this task by Hazen & Sawyer, *Reservoir No. 6 Water Treatment Facility Rehabilitation of Filtered Water Basin*, dated April 2016. Additional resources include Groundwater Elevation maps by Zuvic-Carr, the original construction documents by Buck, Seifert, and Jost dated February, 1968, and a piping plan surrounding the reservoir dated 1971 of uncertain origin.





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Upon completion of the independent review, AECOM identified observations that warrant further consideration as discussed below.

Structural Observations

AECOM's review of the construction documents identified nine key structural components of the rehabilitation effort which are discussed in the sections noted below.

- 1. Sliding Stability
- 2. Infiltration of Groundwater and Loss of Bearing Substrate
- 3. Buoyancy Stability
- 4. Loads on Top Slab
- 5. Final Design Conditions and Details
- 6. Excavations
- 7. Suitability for Use of Materials in Drinking Water System Component (NSF/ANSI 61)
- 8. Crack Repair and Riser Modifications
- 9. Other Specifications

Of particular importance is AECOM's observation with regard to dewatering requirements.

- References to dewatering are made in the provided Contract documents
 - Dewatering specifications are provided
 - A note is included on drawing S-01 states: "Temp Shoring, Excavation & Dewatering as required for Expansion joint reconstruction, TYP 4 locations.
 See Expansion Joint Remediation & reconstruction – at wall on DWG. S-06."
 - A note is included on S-06 "Section at Wall" stating "Temporary shoring, excavation & dewatering as required for expansion joint reconstruction".
- It appears to reviewers that the contract documents only require dewatering of
 excavations for the vertical wall sections, which may not be considered by a
 contractor as covering the extents of the removed portions of concrete within the
 bottom of the basin (i.e.-, complete dewatering under the basin).
- Items 1 through 3 are largely resolved by including or clarifying within the contract documents that dewatering is intended to include under the filter basin..

1. Sliding Stability

Based on the information provided, AECOM performed a sliding stability analysis for the Filtered Water Basin both as the basin was constructed and the multiple conditions during the rehabilitation work. The analysis focused on two sections: the west section, comprising of the portion of Compartment 1 to the west of the Expansion Joint, and the central section, comprising the portion of the Filtered Water Basin containing the center dividing wall. Each



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section was analyzed for sliding effects with both the top slab soil in place and the top slab soil removed, with and without groundwater being taken into consideration. The purpose for the variation in groundwater as part of the study is due to AECOM's observation that the project specifications only require dewatering within the excavation, and not the entire basin area.

Note that in AECOM's analysis the at-rest equivalent lateral pressure was utilized given the imposed load effects and the movement necessary to develop the at-rest pressure with the effects of sliding and ensuing moment, however, greater knowledge of the geotechnical conditions at the site may result in a change in this assumption.

The analysis indicated that a number of variables have significant effects on the structural stability of the Filtered Water Basin that must be considered as part of the project. These variables are:

- 1) Unit weight of soil and concrete
- 2) Groundwater elevation
- 3) Imposed lateral soil loads
- 4) Coefficient of friction between concrete and underlying strata
- 5) Internal coefficient of friction of soil.

It is understood that different engineers, in their professional judgement, will reach different conclusions depending on assumptions made regarding backfill, the validity of the groundwater data, and assumptions of the soil effects on the Filtered Water Basin. AECOM utilized reasonably estimated values for most variables given the uncertain nature of design and the potential catastrophic effects of failure both on the Filtered Water Basin and on the operations of the water distribution system as a whole. Based upon the available data, the AECOM analysis utilized the following assigned values for the variables:

- 1) Unit Weight of Soil: 125 pounds per cubic foot (pcf)
- 2) Unit Weight of Concrete: 145 pcf
- 3) At-Rest Soil Pressure (Dry Soil): 65 pcf
- 4) At-Rest Soil Pressure (Wet Soil): 95 pcf
- 5) Coefficient of Friction between Concrete and Soil: 0.60
- 6) Angle of Soil Wedge from Vertical for Soil on Lip: 30 degrees

The groundwater elevation, obtained from the Zuvic-Carr Groundwater Elevation Map, dated January 17, 2014, was averaged based upon an assumed projection of the groundwater elevation contours. The average elevation of groundwater under the west portion of Compartment 1 was estimated to be Elevation 356.00; the average elevation of groundwater



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under the central portion of the Filtered Water Basin was estimated to be Elevation 353.00. Based upon these results, AECOM determined the following factors of safety against sliding are detailed below, in Table 1.

Condition	Compartment No. 1, West	Central Portion, One
	Portion	Compartment Full
	Factor of Safety, Sliding	Factor of Safety, Sliding
No Soil on Top, No	0.27	0.77
Dewatering		
Soil on Top, No Dewatering	1.15	1.28
No Soil on Top, Dewater to El.	2.51	2.27
349.00		
Soil on Top, Dewater to El.	3.43	3.38
349.00		

Table 1: Factor of safety against sliding

It appears based upon the analysis above, with groundwater in place at the January 17, 2014 level, that the west end compartment is not stable for sliding when that compartment of Filtered Water Basin is empty and soil is removed from the top. It is therefore possible that upon removal of the four-plus feet of concrete adjacent to the expansion joint that the western section of Filtered Water Basin slides when there is no soil on the top. AECOM offers the following suggestions to reduce the potential for a sliding failure:

- 1) Additional study into the sliding stability of the west section compartment;
- 2) Leaving the soil on the top slab in place while Compartments below are empty;
- Staged removal and replacement of expansion joint material; such as top and bottom first, then the sides, provided sufficient capacity exists to allow portions of the Filtered Water Basin to act as diaphragms; or
- 4) Temporary lowering of groundwater elevation under the Filtered Water Basin.

2. Infiltration of Water and Loss of Bearing Strata during Construction

Due to the groundwater elevation observed within the vicinity of the Filtered Water Basin, the potential exists for infiltration of groundwater and underlying bearing strata into the Compartment once a portion of the base slab is demolished. The base slab top of concrete is between Elevation 347.00 and 350.00; with groundwater variable under the Filtered Water Basin from a low point less than Elevation 351.00 to a high point along the Expansion Joint of Compartment Number 1 of Elevation 356.00. From the groundwater data it appears that there is approximately six feet (6'-0") of driving head at the location of the Expansion Joint.

AECOM is aware of a number of similar cases where demolition below the water table occurred in similar structures became problematic. In one instance, a 4-inch diameter core



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was drilled through the base slab of a buried water storage reservoir for investigative purposes; and another where a secondary pressure relief mechanism was activated. In both cases, the velocity of the groundwater flowing into the reservoirs resulted in the scour of bearing strata by washing into the reservoir, a loss of bearing support, and the need for additional rehabilitation.

Similar to resolutions to the sliding issue, it may be possible to mitigate the infiltration by temporary dewatering. Due to the uncertainty of the effective driving head of groundwater under the Filtered Water Basin, it is recommended that a contingency plan be developed to address potential inflow and a loss of bearing strata through the use of low-pressure grouting or other means under the base slab of the Filtered Water Basin as well as a means to address the potential flooding within the Filtered Water Basin. It may be prudent to consider the installation of drilled pilot holes in concrete to be removed as part of the rehabilitation as a means to test the groundwater elevation while retaining a hydrophobic injection system onsite in the event groundwater infiltrates the basin through the pilot holes.

3. Buoyancy Stability

Similar to the sliding observations above, it is crucial to address the buoyancy of the Filtered Water Basin as a whole and of the relevant sections, particularly the west section during the rehabilitation effort. As seen in Table 2 below, the factor of safety against buoyancy uplift varies based upon both the presence of soil on the top slab and the groundwater elevation on the respective sections of the Filtered Water Basin.

Condition	Compartment No. 1, West	Central Portion, One
	Portion	Compartment Full
	Factor of Safety, Buoyancy	Factor of Safety, Buoyancy
No Soil on Top, No	1.11	1.44
Dewatering		
Soil on Top, No Dewatering	1.50	2.10
No Soil on Top, Dewater to El.	14.81	11.43
349.00		
Soil on Top, Dewater to El.	19.95	16.60
349.00		

Table 2: Factor of safety against buoyance uplift

While not globally unstable, AECOM suggests reviewing the groundwater elevations and factors of safety to determine if dewatering is required, or if the soil removal and replacement operation should only occur when both compartments are full. The methodology for addressing buoyancy (if such a concern exists) is to leave soil on the top slab of the Filtered Water Basin or implement dewatering to a lower elevation. Again, the resolution may be as





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simple as verifying the extents of groundwater monitoring and/or dewatering over the entire basin area.

4. Loads on Top Slab

Construction loads

Due to the requirement to work on the top slab, remove soil, install the liner and drainage system, and replace soil, it is recommended that clear loading limits be established on the top slab of the Filtered Water Basin. While Note X-1 on sheet S-07 is intended to convey this information, it is left blank and may be inadequate to determine the permissibility of equipment. Additionally, loading lanes of greater load may be possible, for example at the dividing wall and at expansion joints, due to the potentially higher load capacity of these elements in compression compared to typical Filtered Water Basin columns. This could be of use during concrete operations or other activities where load capacities in excess of the general area load may prove beneficial.

Temporary support loads

The temporary shoring system for the top slab, while considered a construction means and methods component of the project, if improperly implemented, may result in either locked in stresses or potential future failure modes through increased cracking of the top slab. It is recommended that the service level design loads, including dead, soil, and live load, be indicated as line (slab) and point (beam) loads adjacent to the expansion joint to enable the contractor to select the appropriate shoring system. Determination of the imposed load may be beyond the expertise of a contractor, and providing the load will provide greater confidence against potential structural failures during construction.

Indication is present regarding minimum shoring requirements of beams and the slab, limited to indicating that continuous support for the edge of slab shall be required, which in AECOM's opinion, is the preferred method of shoring. The top slab as installed is designed as a two-way slab supported on all four sides; once the demolition occurs and if no support is offered, the east-west beams become cantilevers and the slab becomes supported on only three sides. It is the opinion of AECOM that the preferred shoring system at the free end will replicate the existing support configuration of the basin, with a near continuous support of the edge of the slab and additional supports under the beams; as specified in the Construction Documents.

An additional observation regarding the temporary shoring system is the need to remove load from components prior to demolition of those components. This is crucial not only for the safety of those involved, but for replicating the design condition of the Filtered Water Basin once the concrete elements are replaced and the shoring is removed. No notes or other





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statements were located within the construction documents identifying this need; yet it is critical for the long-term serviceability of the Filtered Water Basin to restore the load path and deflection compatibility of the slab system following the rehabilitation effort.

5. Final Design Conditions and Details

"Section Beams", sheet S-06 details the demolition and reconstruction at the expansion joint in the base slabs, columns, and beams and is intended to depict the demolition of the affected concrete elevations adjacent to the expansion joint and the reconstruction of the same elements.

Top Slab

No section or details for top slab reinforcement or size is provided; it is assumed that the top slabs are to be replaced in-kind.

A concern at the interface of existing and new construction of the top slab is that the top slab is 8" thick; the specified waterstop within the slab is a 6" retrofit waterstop. The geometry of the retrofit waterstop only allows 1" of cover on both the top and bottom surface of the slab and suggests that the retrofit waterstop will interfere with the existing reinforcing steel. Due to the limits of available space it may be necessary to reduce the size of the retrofit waterstop at this location to a 4" retrofit waterstop, which will likely fit between the mats of steel.

Beams

The beams are apparently intended to be an in-kind replacement of Beam B-4 from the original design. Per provided record drawings, Beam B-4 is a 12" x 24" reinforced concrete beam with 2-#6 bars top and bottom continuous, and an additional 2-#6 bars bent to supplement the bottom and top steel at the points of maximum moment. The shear stirrups in the beam are #3 bars, the first stirrup at 4" from the face of the support and the remainder at a distance of 15"; with both the shear stirrups and top bar steel dropped approximately 6" to allow placement of the top expansion joint waterstop. The replacement beam is detailed as a 12" x 18" beam with 4-#7 bars top and bottom continuous, with shear stirrups in the beam are #3 bars at 12" on center, with no provision for placement of the expansion joint waterstop.

Based upon the greater area of steel and higher material strengths, the moment capacity of the replacement beams exceed that of the original beam; however, the shear capacity of the replacement beams is approximately 10% lower. Additional items of concern are that the intersecting beams B-1 that frame into B-4 are also 18" x 24" beams and the shear stirrup spacing of greater than half the depth to steel may violate the provisions of §11.5.4.1 of ACI 350-06. Because of these concerns, in the absence of additional analysis AECOM suggests further investigation into an in-kind replacement with 12" x 24" beams and placing the stirrups at a spacing of no greater than 10" on center.





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Additional beam detailing that is required is for the intersecting portions Beams B-1 which frame in to the new Beam B-4. During the demolition operations, 2'-0" of concrete will be removed, 1'-0" consisting of beam B-4 and then 1'-0" off the end of Beam B-1. Due to the nature of shear stresses in beams, demolition in this location places a construction joint near the point of maximum shear and will require design consideration and detailing to address that shear both in terms of shear friction reinforcement of shear stirrups conveyed on the construction documents in greater detail.

Columns

Section A-A on S-06 details column reinforcement for the replacement column; it is assumed that the columns are to be replaced in-kind. However, additional detail is required to identify the tie spacing at the base and top and top dowel termination details. Additionally, the spacing of the longitudinal bars (3-#7 each face) may require additional ties as the ties may be spaced greater than 6" on center.

Base Slab

No section or details for base slab reinforcement or size is provided; it is assumed that the base slabs are to be replaced in-kind.

It is suggested that full details of the slab, beam, column, and base slab concrete and reinforcing steel be provided; including geometry, reinforcing steel information including location of stirrups and ties, and dowel requirements. Additionally, if permitted, edge distance and embedment length for replacement bars in the event that a slab bar is cut may be shown.

Note that in order to fully develop the internal friction of concrete for shear capacity the existing concrete at the interface between new and existing concrete must be intentionally roughened to ¼" amplitude in accordance with ACI 350-01, §11.7.9. This is particularly important for Beams B-1, the top slab, and the base slab components where high shear stresses are expected, and may be of value for the walls to avoid potential movement at the joint under loading. The exception in this case would be at the retrofit waterstops, where it will be required to have a smooth surface to increase the effectiveness of the retrofit waterstop.

Shoring

It is recommended that the shoring system installation requirements include temporarily jacking the roof slab in the affected areas so that no "locked-in stresses" are imposed in the slab prior to the installation of the replacement beams and slabs.

Water Tightness

The project creates two water pathways through concrete where only one existed previously at the expansion joint. As discussed above regarding the section titled Section at Beams on



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S-06; AECOM recommends replacing the 6" retrofit waterstop with a 4" retrofit waterstop due to the restrictions caused by the top slab thickness. AECOM further recommends incorporating a detail from the original construction where the top steel and the stirrups for the Beam B-4 element are lowered approximately 6" to allow the continuation of the expansion joint waterstop within the top slab.

An additional recommendation to benefit to the water tightness of the project is the specified use of the expansion joint seal in lieu of the joint sealant. The Expansion Joint Seal is designed to develop a water-tight connection in addition to being a lower-maintenance component; and it is AECOM's opinion that the Expansion Joint Seal selected by the designers represents the best possible solution. Note that the section titled, Section at Beams, S-06, includes references to joint sealant, which does not exist at this location based on the specifications.

The underside of the joint filler (inside the basin) contained between the beams at the tops slab must be supported in some manner, otherwise, debris from the joint filler will eventually fall into the basin either due to age related deterioration or movement of the joint. It is recommended that the Expansion Joint Seal installation be extended on the interior surface of the expansion joint the full interior perimeter of the joint so as to retain the filer material.

6. Excavations

The detail titled Section at Wall onS-06 identifies a temporary excavation support system for the section of demolition and reconstruction at the exterior face of the wall. The width of the excavation system is identified as 48" minimum, however, note that a pipe runs near this location on the north side of the Filtered Water Basin.

An October, 1971 drawing titled "Reservoir No. 6 Filtration Plant Piping and Valves", with the notation "R.J.F." shows a 90-inch Filtered Water line with a centerline 10'-0" from the north exterior face of the Filtered Water Basin wall; or approximately 6'-3" clear space between the exterior of the Filtered Water Basin and the Filtered Water line. Due consideration must be made for the construction tolerances of the installation of the 90-inch Filtered Water line and variability of the installation of the temporary excavation support system. Designers may consider specifically calling out this significant infrastructure and any special requirements, including inspection or monitoring, in design documents.

On the south face of the Filtered Water Basin, a 1-inch sampling line is shown located 8'-0" from the face of the Filtered Water Basin, with similar concerns to that of the 90-inch line, above.





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Because of the presence of utilities adjacent to the basin, and the fact that the utility plan made available to AECOM is apparently not part of the original design set; it is suggested to include the 1971 piping plan as part of the Construction Documents issued for bid.

In addition to noting the presence of utilities, it is recommended to identify permissible excavation support system bracing locations and loads against the Filtered Water Basin walls. This is due to the limited workspace available and the need to resist the lateral soil load imposed on the temporary excavation support system with an equal and opposite force, potentially provided by the Filtered Water Basin walls (which based on the construction is suspected of being able to resist at least the equivalent lateral soil pressure).

7. Suitability for Use of Materials in Drinking Water System Components (NSF/ANSI 61)

In lieu of joint sealant material, the design utilizes an expansion joint seal, sole source specified as a Hydrozo/Jeene Structural Sealing Joint System (§03250-2.09-B), designed for bridge decks. Review of NSF/ANSI databases suggests that the specified joint sealant material is not NSF/ANSI 61 approved for drinking water exposure. An alternate product that performs in a similar manner and is NSF/ANSI 61 approved is the Emseal Submerseal System, however, that product is only rated for chlorine exposures up to 5ppm so it may be negatively affected by the disinfection procedure.

An alternative flexible mastic joint sealant that may be utilized (in a traditional joint filler/joint sealant installation) is either Synthacalk GC2+ (Pecora Corporation); Tammsflex NS (Euclid Chemical Company); or Thiokol 2235M (PolySpec). These three joint sealant materials are each approved by their respected manufacturer's for use with chlorine exposures up to 50ppm and are NSF/ANSI 61 approved as of the date of this memorandum; however, these are also traditional joint sealant materials and lack the benefit of the Expansion Joint System.

It is recommended that §03300 contain language requiring all admixtures to conform to the requirements of NSF/ANSI 61 for use in potable water systems. With respect to pozzolans, AECOM is not aware of any fly ash that has been tested or meets the requirements of NSF/ANSI 61. Holcim's Grancem product has NSF/ANSI 61 certification if the use of a pozzolan is recommended.

Outside of the concern for NSF/ASNI 61 certification for components; the contract documents call for leaving the reinforcing steel in the demolished portion of concrete in place and undamaged. However, it may be necessary to remove the reinforcing steel within the specified concrete width if the reinforcing steel is contaminated or damaged, in which case details for drilled adhesive installation of reinforcing steel will be required.



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8. Crack Repair and Riser Modifications

The crack repair and rehabilitation appears to be in accordance with accepted practice. Unless the cracks are actively leaking or reinforcing steel corrosion is noted, it may not be necessary to repair cracks or replace an existing wall patch immediately. However, performing the repairs in the dry while completing the rest of the work is, in AECOM's opinion, the best option compared to a subsequent repair operation; and therefore, the likely appropriate approach.

With respect to rebuilding the entrance hatches, the new riser walls are constructed with an expanding rubber waterstop at the interface between the slab and the walls, which is appropriate given the relatively thin top slab and walls and the difficulty in installing a PVC waterstop in those locations. The top of the risers are located two feet (2.00 feet) above grade, reducing potential infiltration at the hatch level, and in AECOM's opinion, is an appropriate feature to include in the design. Of possible additional value to consider at this joint to reduce potential infiltration of rainwater and snow melt is the addition of an exterior PVC strip waterstop, such as the Sika Sikadur Combiflex system to provide a redundant waterstop along with the expanding rubber waterstop.

9. Other Specifications

Specification observations

Note that §03250 references §07900 for joint sealants, however, §07900 specification is not included in the bid set obtained by AECOM, and appears that it may not be necessary.

Sequencing

The construction sequence outlined in Specification Section 01143, Coordination with Owner's Operations, and that identified on Drawing C-03, Drainage Plan, General Notes, and Details; appears to not be coordinated in that it may be read that the removal of top slab soil is independent of the interior work. As discussed earlier, our review indicates that the weight of the soil on the top slab is crucial for maintaining sliding stability of the exterior portion of the Filtered Water Basin, and the sequence of construction should incorporate consideration of the need for the top slab soil, or specify dewatering measures including timeline of dewatering operations as well as to what elevation dewatering is to be maintained.



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References

- 1) Hazen & Sawyer, Reservoir No. 6 Water Treatment Facility Rehabilitation of Filtered Water Basin; April 2016.
- 2) Zuvic-Carr, *Reservoir No. 6 Filtered Water Basin Upgrade, Groundwater Elevation Map*; January 17, 2014.
- 3) Buck, Seifert, and Jost, Reservoir 6 Water Treatment Plant, Stage I; February 1968.
- 4) RJF, Reservoir No. 6 Filtration Plant Piping and Valves, October, 1971.
- 5) American Concrete Institute, *Code Requirements for Environmental Engineering Concrete Structures and Commentary*, ACI 350-01, 2001.

APPENDIX E

OWNER CERTIFICATION





November 1, 2016

Kimberly N. Tisa, Region 1 PCB Coordinator United States Environmental Protection Agency 5 Post Office Square, OSRR07-2 Boston, MA 02109-3912

Subject:

Written Certification Required Under §761.61(a)(3)(E)

Filtered Water Basins Rehabilitation Project

The Metropolitan District

Reservoir No. 6 Water Treatment Facility Rehabilitation of Filtered Water Basin Project 2900 Albany Avenue, West Hartford, CT

Dear Ms. Tisa:

To the best of my knowledge, I certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to access or characterize the PCB contamination at the Reservoir No. 6 Water Treatment Facility are on file at the Weston & Sampson offices located at 273 Dividend Road, Rocky Hill, CT and are available for EPA inspection.

If you have any questions, comments or concerns you may contact Malcolm Beeler via phone at 860-513-1473 ext 3077 or via email at beelerm@wseinc.com.

Very Truly Yours,

Jeffrey Davis, P.E., L.S. Manager of Design

The Metropolitan District

cc: Gary Trombly, CT DEEP

Thomas Chyra, Supervising Sanitary Engineer, CT DPH-Drinking Water Section